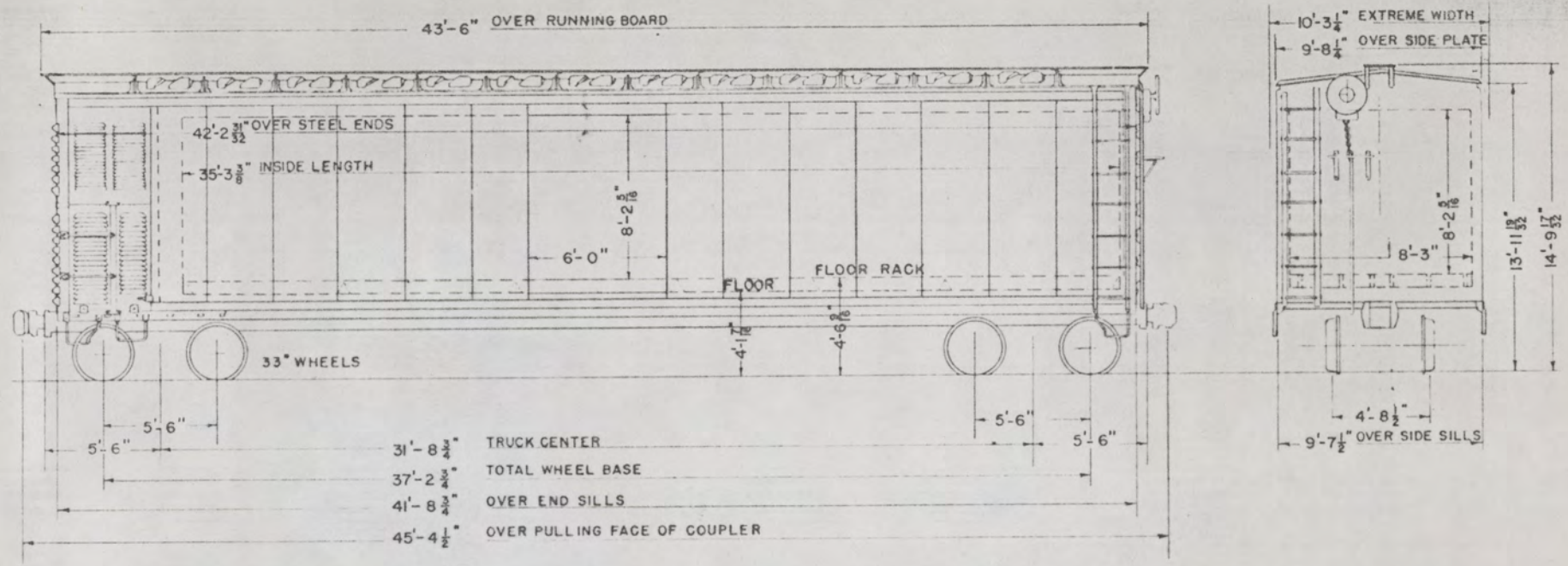
MECHANICAL

REFRIGERATOR CAR

80,000 LBS CAPACITY



LIGHT WEIGHT OF CAR		68,100
CUBIC LOADING CAPACITY		2384
AVAILABLE LOADING HEIGHT		8'-2 5/16"
UNDERFRAME		ALL WELDED
TRUCKS	250 5/8 BUCKEYE 100 5/8 SCULLIN	150 5/8 SYMINGTON
DRAFT GEARS	400 5/8 MINER-RF333 100 5/8 CARDWELL	MARK-40
COUPLER	TYPE E	RIGID SHANK
WHEELS		CAST STEEL
AXLE	5 1/2" X 10"	ROLLER BEARING
AIR BRAKE		AB
HAND BRAKE	400 5/8 EQUIPCO 100 5/8 AJAX	
RUNNING BOARD		MORTON
SIDE DOOR	6'	SUPERIOR
INSULATION - WALLS	3" K-20.	3" GLASS FIBER
INSULATION - ROOF	2" MINERAL WOOL	2 1/2" K-20, 4" GLASS FIBER
INSULATION - FLOOR		6" RIGID FOAMED PLASTIC
REFRIGERATION UNIT	CARRIER -	100328-100502
REFRIGERATION UNIT	EQUIPCO -	100003-100027
REFRIGERATION UNIT	TRANE -	100028-100327
DIESEL ENGINE		WITTE - MODEL 100
FUEL CAPACITY		500 GAL.

REFERENCE DRAWINGS	
GENERAL DESIGN	6R-4000
STEEL SHEATHING	6R-4575
UNDERFRAME	4R-4340
AIR BRAKE ARRG'T.	6R-4435
WOOD FRAMING ARRG'T.	6R-4510
INSULATION - WALLS	4R-4450
INSULATION - ROOF	4R-4451
INSULATION - FLOOR	4R-4451
LETTERING	6R-4430
ALLOCATION OF SPECIALTIES	2R-4444
MACH. COMP. ARRG'T. - CARRIER	4R-4650
MACH. COMP. ARRG'T. - EQUIPCO	4R-4650
MACH. COMP. ARRG'T. - TRANE	4R-4632

PACIFIC FRUIT EXPRESS CO.

CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
S.P.E. CO. LOS ANGELES	500	1958

CAR NUMBERS

100003 - 100502

CAR CLASS	DIAGRAM
R-40-30	R-51

INDEX TO DRAWINGS
CARS CLASS R-40-30
GENERAL DESIGN DRWG. NO. 6R-4000

DRAWING NO.	TRUCKS
112-3572	Wheels
112-4260	Axles
113-4255	Roller Bearings
114-4259	Roller Bearing Adaptors
162-3536	Brake Shoe
161-3537	Brake Shoe Key
161-3211	Truck Lever 5" x 10"
161-3209	Truck Lever 7" x 14"
161-3114	Truck Lever Connection
421-3642	Dead Lever Fulcrum
421-2498	Center Pin
421-3167	Side Bearing - Stucki
162-3573	Unit Brake Beam
162-3582	Unit Brake Beam Wear Plate
1R-4336	Journal Box Retainer Key
1R-4336	Retainer Key Lock
4R-4448	Truck Assembly (Barber)
4R-4447	Side Frame
4R-4446	Bolster
1R-4445	Friction Wedge Spring
2R-4443	Friction Wedge Block
3R-4364	Truck Assembly (Sym.)
4R-4361	Side Frame
4R-4362	Bolster
4R-4442	Side Frame (Scullin)
4R-4441	Bolster
362-2415	Truck Springs (Outer Coil)
362-2415	Truck Springs (Inner Coil)
3R-4363	Dead Lever Fulcrum Bracket
4R-4449	Trucks - Method of Assembling
2R-4366	Side Frame Marking Diagram

UNDERFRAME

4R-4340	Underframe Arrangement
4R-4343	Bolsters & Crossbearers
4R-4344	Center Sill & Striker
4R-4345	Underframe Details
4R-4346	Underframe Details
3R-4422	Sub Floor
201-3254	Trunnion Lug
443-3615	Front Draft Gear Stop
441-2989	Sill Step
1R-4504	Sill Step At Door
341-3778	Sill Step At Comp. Door
3R-4488	End Sill Handhold
1R-4686	Body Side Bearing
2R-4664	Mach. Comp. Mounting Holes

misc. parts.

UNDERFRAME (CONT'D)

443-3569	Body Center Plate
4R-4409	Bolster Center Filler (Buckeye)
4R-4367	Bolster Center Filler (Symington)
3R-4555	Door Track
3R-4555	Door Track Filler
3R-4555	Closing Kicker Bar
203-2346	Coupler Type E
3R-4618	Coupler Release Rigging
201-3533	Draft Gear Key
202-3257	Coupler Centering Device Carrier Iron
201-3256	Trunnion Link
203-3258	Adjustable Trunnion Pocket
202-3538	Draft Key Retainer
3R-4473	Draft Gear - Miner RF-333
203-3474	Coupler Yoke Y-40
201-3220	Draft Gear Carrier
3R-4507	Draft Gear - Cardwell Mark 40
201-3596	Follower Plate
1R-4677	Slack Adjuster Bracket
204-3956	Coupler Centering Device Arrg't.
1R-4677	Slack Adjuster Bracket - Modified
1R-4524	Follower Plate - Mark 40

BRAKES

6R-4435	Air Brake Arrangement
161-3534	Angle Cock
161-4002	Air Hose
163-2546	Brake Rods
161-3266	Brake Rod Jaws
163-2542	Brake Rod Jaws
163-3616	Brake Lever Pins
161-3113	Brake Pipe Anchor R-27-5
162-3840	Retainer Pipe Clamp Cenco
161-3638	Retainer Pipe Clamp
161-3216	Push Rod
163-3310	Badge Plate
161-4051	Release Rod Support
161-3658	Retainer Pipe Clamp
161-3771	Branch Pipe Tee
161-3637	Angle Cock U-Bolt
161-3597	Connecting Chain
163-2542	Brake Rod Jaw
162-2543	Brake Rod Eye
161-3174	Clevis
152-2267	Bell Crank
161-2762	Bell Crank Chain
161-3171	Clevis Connection Chain

BRAKES (CONT'D)

1R-4685	Floating Lever
1R-4684	Cylinder Lever
3R-4532	Brake Adjuster Application
3R-3960	Hand Brake Arrangement

FUEL TANKS

6R-4435	Fuel Tank Arrangement
383-4226	Fuel Tanks
1R-4436	Fuel Tank Filler Pipe
381-4287	Filler Hose
1R-4437	Vent Pipe
381-3837	Fuel Strainer
441-3574	Fuel Pipe Clamp
441-3574	Reinforcing Plate
163-3616	Forged Pins
3R-4413	Dial Type Fuel Gauge
2R-4438	Connecting Tank

STEEL SIDES AND ENDS

6R-4575	Sheathing & Framing Arrangement
2R-4576	Side Sheet
2R-4577	Side Sheet @ Machine Comp.
3R-4578	Side Sheet
3R-4579	Side Sheet
2R-4580	Side Sheet @ Machine Comp.
2R-4581	Side Sheet
2R-4582	Side Sheet
3R-4583	Side Sheet Below Door
2R-4584	Louvered Side Sheet AL
3R-4585	Louvered Side Sheet AR
3R-4586	Side Sheet
3R-4587	Side Sheet @ Door
3R-4588	Side Sheet
1R-4589	Door Stop Backing Plt.
1R-4590	Threshold Plate Support
1R-4591	Filler At Door Header
1R-4592	Top Bolting Bracket At Corner Post
1R-4593	Top Ret. Reinf. Plate
3R-4594	Door Post
3R-4595	Door Header
3R-4596	Intermediate Post
3R-4597	Intermediate Post

STEEL SIDES AND ENDS (CONT'D)

3R-4598	Intermediate Angle Post
3R-4599	Corner Post "B" End
3R-4601	Corner Cap "B" End
3R-4602	Corner Cap "A" End
4R-4603	Side Sill Angle
131-3877	Int. Post & Side Plt. Conn.
131-4079	Door Post & Side Plt. Conn.
131-3881	Bolting Clip At Door & Side Plate Gusset
131-3882	Bolting Clip At Door Post & Side Sill Gusset
131-3885	Bolting Clip At Splice Of Steel At Corner Post
131-3883	Inter. & Bottom Bolting Brkt. At Corner Post
122-4054	Door Post & Side Plate Gusset
122-4056	Door Post & Side Sill Gusset
121-4052	Door Post Bolting Clip
121-3184	Top & Inter. Bolting Clip
121-2966	Side Grab Reinforcement
3R-4555	Bumper Reinforcement
121-2958	Standard Filler
137-3564	Grab Iron Connection
3R-4555	Top Retainer
2R-4605	Corner Post - A-End
3R-4606	Filter Panel Header
131-4001	Handhold Stile Bracket
1R-4559	Top Roller Stop
2R-4565	Door Bumper D-1208
2R-4567	Door Keeper
2R-4568	Door Keeper
1R-4263	Ladder Reinforcement
1R-4624	Bolting Clip
4R-4612	Steel End Arrangement - B End
4R-4610	Steel End Arrangement - A End
4R-4613	Steel End Details B-End
4R-4611	Steel End Details A-End
1R-4407	Brake Step Bracket
1R-4616	Hand Brake Housing Support
1R-4506	Running Board Support Brace
1R-4551	End Running Board Support
371-3202	Retainer Valve Bracket
161-3638	Retainer Pipe Clamp
1R-4623	Steel End Bolting Strap
4R-4480	End Ladder
4R-4480	Side Ladder
283-3721	Placard Board Brkt.
282-3181	Defect Card Holder (Flexi)
342-2019	G.T. Washers
3R-4488	Handholds
3R-4411	Brake Step
1R-4559	Door Top Roller Stop
4R-4634	Side Plate

STEEL SIDES AND ENDS (CONT'D)

371-3324	Handhold Brkt. A-End
2R-4384	Indicator Light
1R-4383	Indicator Light Guard
3R-4573	Filter Panel - Carrier
3R-4574	Filter Panel - Trane
3R-4475	Filter Panel - Equipco
3R-4331	Louvered Panel Installation - AR

MACHINE COMPARTMENT

3R-4531	Bulkhead Post
2R-4530	Header
2R-4530	Header End Plate
2R-4530	Bulkhead Brace
3R-4527	Compartment Lining - Equipco
3R-4528	Compartment Lining - Carrier
3R-4529	Compartment Lining - Trane
1R-4337	Service Manual Holder
1R-4338	Eye Shield Holder
1R-4518	Capsule Can Holder
123-3849	Battery Box
022-4010	Misc. Clamps & Washer
3R-4472	Bulkhead Post Arrangement
1R-4519	Machine Compartment Lining at Header
283-4113	Log Book Holder
2R-4664	Machine Compartment Mounting Hole Locations
4R-4541	Temperature Control Box
4R-4542	Temperature Control Cabinet Assembly

FLOOR AND WALLS FRAMING

6R-4510	Wood Framing Arrangement
3R-4420	Arrangement & Details Floor Stringers
122-3617	Decking
2R-4654	Threshold Filler
3R-4508	Drain Pan
023-4062	Drain Pan Heater Well
2R-4509	Drain Pan "B" End
1R-4645	Drain Tube
1R-4644	Wind Guard Bracket
1R-4641	Wind Guard
1R-4646	Helical Twist Spring
1R-4642	Wind Guard Bracket Support
1R-4643	Drain Tube Flange
1R-4534	Rubber Grommets
3R-4424	Wood Framing Details - Doorway
3R-4431	Belt Rail - Top
3R-4432	Belt Rail - Intermediate
3R-4433	Coping Board
1R-4434	B-End Framing Details
3R-4432	Sub Lining Nailers
2R-4265	Wing Guard Assembly
022-4010	Clamps & Washers
3R-4421	Condition at Floor Pan

FLOOR AND WALLS FRAMING (CONT'D)

2R-4427	Spacer Blocks
1R-4498	Lining Nailers
122-3617	T & G Lining
2R-4633	Floor Rack Hinge Butt
3R-4640	Floor Rack Holder Application
3R-4533	Lading Strap Anchor
1R-4655	Threshold Flashing
1R-4656	Floor Flashing
122-3790	Threshold Plate
4R-4451	Insulation Application - Floor
4R-4450	Insulation Application - Walls
123-2207	Bolt Head Locks
1R-4622	Over Door Flashing
2R-4666	Bolting Strap Arrangement B-End
	A-END FRAMING EQUIPCO CARS 100003 - 100027
1R-4503	Heater Well Air Lock
3R-4539	Bulkhead Wood Framing - Equipco
3R-4540	Bulkhead Wood Framing Details
2R-4657	Metal Sub Lining At Blower
2R-4621	"A" End Lining - Plywood
1R-4625	Reinforcing Angle At Blower
1R-4660	Fan Outlet Diffuser
4R-4452	Insulation Application Bulkhead
1R-4415	Bulkhead Pad Handle
1R-4549	Spacer Blocks "A" End
2R-4626	Plywood Sub Lining "A" End
2R-4425	Filler at Cooling Coil
	A-END FRAMING TRANE CARS 100028 - 100327
2R-4688	Metal Lining at Evaporator
3R-4537	Bulkhead Wood Framing - Trane
3R-4538	Bulkhead Wood Framing Details
1R-4359	Refrigerant Line Box Lining
3R-4544	Bulkhead Reinforcements
122-3561	Metal Sub Lining At Blower
2R-4620	"A" End Lining - Plywood
2R-4659	Fan Outlet Diffuser
4R-4454	Insulation Application Bulkhead
1R-4415	Bulkhead Pad Handle
1R-4609	Spacer Blocks "A" End
2R-4628	Plywood Sub-Lining "A" End
1R-4439	Condensate Roof for Sensing Element
	A-END FRAMING CARRIER CARS 100328 - 100502
3R-4535	Bulkhead Wood Framing - Carrier
3R-4536	Bulkhead Wood Framing Details
1R-4359	Refrigerant Line Box Lining
3R-4608	Bulkhead Reinforcement
122-3561	Metal Sub Lining At Blower
2R-4619	"A" End Lining - Plywood
4R-4453	Insulation Application Bulkhead
1R-4439	Condensate Roof for Sensing Element

A-END FRAMING CARRIER CARS (CONT'D)

1R-4653	Filler At Evaporator
021-3525	Fan Outlet Diffuser
1R -4415	Bulkhead Pad Handle
2R-4548	Spacer Blocks "A" End
2R-4627	Plywood Sub Lining "A" End
1R-4264	Baffle at Evaporator

UPPER FRAMING AND ROOF

6R-4510	Wood Framing Arrangement
2R-4429 mill	Carlines
2R-4429 mill	Sub Ceiling Nailers
121-3674	Carline Brackets & Washers
121-3692	Ceiling Hangers
2R-4505 mill	Ceiling Nailer
1R-4622	Doorway Flashing
2R-4373	Alum. Ceiling
1R-4372	Extrusion Alum.
1R-4305	Diffuser - Alum.
4R-4545	Steel Roof Application
1R-4635	Intermediate Sheet
1R-4636	End Sheet A-End
1R-4637	End Sheet B-End
1R-4638	Seam Cap
1R-4639	Special Seam Cap
1R-4512	Inter. Running Board Saddle
1R-4514	End Running Board Saddles
1R-4513	Splice Running Board Saddles
1R-4483	Side Plate Fillers - Regular
1R-4484	Side Plate Fillers - Special
3R-4488	Roof Handhold
1R-4511	End Lat. Section Support
4R-4543	Running Board - Morton
3R-4411	Brake Step - Morton
322-3846	Exhaust Vent - Details
4R-4451	Insulation Application - Roof
121-3692	Ceiling Nailer Connection.
1R-4414	Blower Diffuser Arrangement

SIDE DOORS

4R-4570 mill	Door Arrangement
3R-4553	Framing & Panel
2R-4563	Cam Operating Rod Assembly
3R-4571	Upper & Lower Crank Assembly
2R-4561	Operating Rod Bearing
2R-4562	Operating Rod Bearing Guide
3R-4554 mill	Door Assembly

SIDE DOORS (CONT'D)

4R-4572	Operating Lever
1R-4557	Door Lever Holder
1R-4560	Door Handle
1R-4558	Lever Lock
1R-4556	Seal Lock
2R-4564	Upper Crank Arm
2R-4566	Lower Crank
4R-4526 Mdf	Door Wood Framing Details
2R-4427	Spacer Block
1R-4604	Lining Nailer
122-3617	Lining
181-3325	Door Protection Strip
4R-4470	Machine Compartment Door
3R-4490	Machine Compartment Door Track
132-4039	Door Lock
131-4037	Sealing Cam & Door Hook
131-4036	Lock Lever
131-4041	Track Bracket
131-4042	Track Bracket
1R-4546	Back Stop
137-3564	Handhold Stile
3R-4488	Side Handhold
1R-4607	Handhold Bracket
2R-4474	Mach. Comp. Door Buffer
3R-4569	Door Wheel Housing
2R-4369	Door Gasket Arrangement
2R-4606	Machine Compartment Door Header

FLOOR RACK

4R-4520	Floor Rack Arrangement
4R-4521	Floor Rack Slats
4R-4614	Floor Rack Stringers - Steel
4R-4615	Floor Rack Stringers - Alum.
2R-4617	Floor Rack Hinge
1R-4525	Gate Section Hinge
3R-4640	Floor Rack Holder Hook Plate
2R-4629	Slat Reinforcement
4R-4521	Handhold Filler

REFRIGERATION UNIT EQUIPCO

4R-4630	Mach. Compartment Arrangement
6R-4698	Control Panel Assembly - Model P-2
6R-4699	Control Panel Assembly - Model P-3
2R-4694	Schematic Wiring Diagram - Model P-2

REFRIGERATION UNIT EQUIPCO (CONT'D)

4R-4678	Cooling Coil & Blower Application
4R-4679	Air Cooling Coil
4R-4680	Motor & Blower Ass'y.
4R-4681	Condenser Air Intake Application
2R-4682	Coil Support
2R-4683	Reinforcing Channel
4R-4541	Temperature Control Box
6R-4552	Engine & Alternator Assembly (Witte)
321-4003	Muffler U-Bolt
021-4236	Dial Thermometer
1R-4489	Thermometer Bulb Bracket
4R-4687	Condenser Assembly
1R-4497	Wiring Diagram Indicating Light
2R-4695	Schematic Wiring Diagram Model P-3
3R-4699	Field Wiring Diagram

REFRIGERATION UNIT TRANE

4R-4632	Mach. Compartment Arrangement
4R-4667	Refrigeration Control Panel
4R-4668	Electric Control Panel
2R-4669	Static Pressure Switch Ass'y.
4R-4670	Evaporator Coil
3R-4671	Evaporator Fan Assembly
4R-4672	Drain Pan Heater
2R-4673	Schematic Cable Diagram
3R-4674	Interconnection Diagram
2R-4675	Control Box Wiring Diagram
2R-4676	Line Diagram
6R-4552	Engine & Alternator Assembly (Witte)
321-4003	Muffler U-Bolt
1R-4647	Suction Line Gasket
1R-4419	Suction Line Gasket Strips
021-4236	Dial Thermometer
1R-4489	Thermometer Bulb Bracket
4R-4478	Drain Pan Heater Assembly
1R-4497	Wiring Diagram Indicating Light

REFRIGERATION UNIT CARRIER

4R-4650	Mach. Compartment Arrangement
123-4029	Blower Assembly
4R-4648	Control Panel Assembly
4R-4649	Evaporator Coil Assembly
4R-4650	Mach. Compartment Arrangement
4R-4651	Base Evaporator Coil
4R-4652	Condensing Unit Assembly
2R-4248	Method of determining Refrigerant level

REFRIGERATION UNIT CARRIER (CONT'D)

6R-4552	Engine & Alternator Assembly (Witte)
321-4003	Muffler U-Bolt
3R-4428	Drain Pan Heater Assembly
1R-4647	Suction Line Gasket
1R-4419	Suction Line Gasket Strips
021-4236	Dial Thermometer
1R-4489	Thermometer Bulb Bracket
1R-4479	Suction Line Support
1R-4497	Wiring Diagram Indicating Light
1R-4264	Baffle at Evaporator

STENCILING DRAWINGS

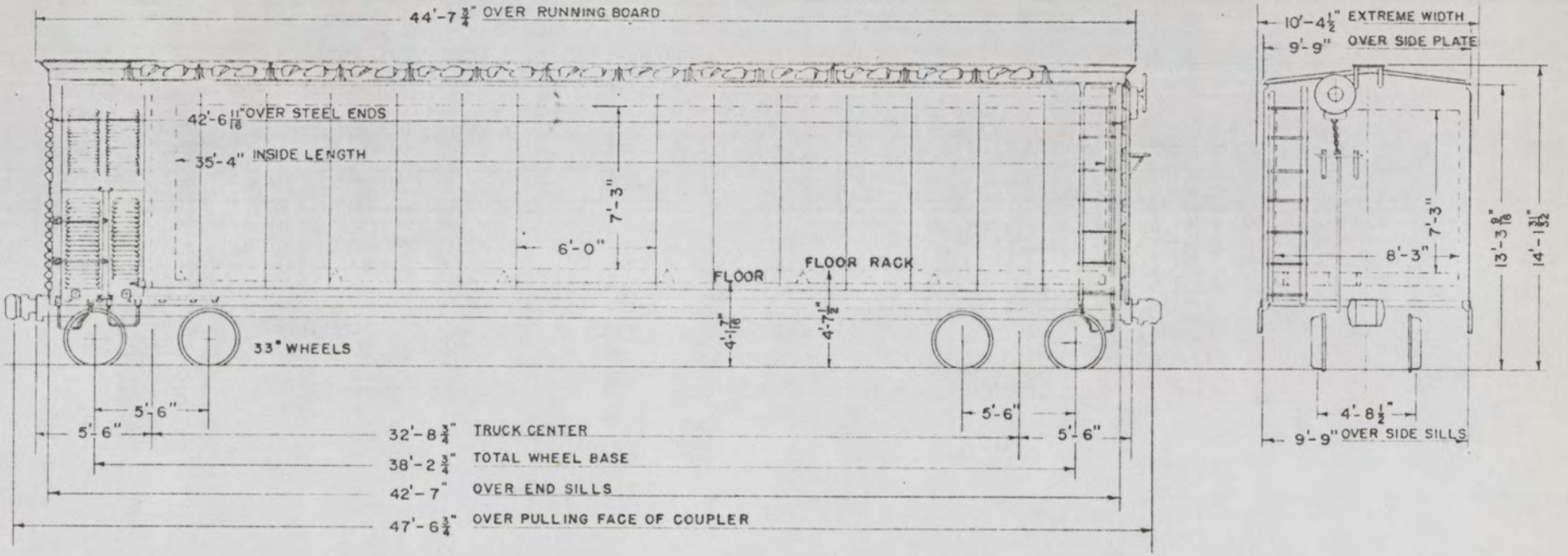
6R-4430	Lettering & Numbering
304-3598	U.P. Medallion
303-3599	S.P. Medallion
303-3705	Fig. & Letters 1" & 1-1/2"
303-3706	Fig. & Letters 2"
303-3707	3" Letters
303-3708	3" Numbers & Star
303-3709	4" Lettering (A to N)
303-3710	4" Lettering (O to Z)
303-3711	4" Numbers
303-3712	7" Numbers (1 to 5)
303-3713	7" Numbers (6 to 0)
305-3715	9" Stencil P.F.E.
2R-4477	1" Block Letters
303-3706	2" Letters and Figures
303-3704	Letter for U.P. Medallion
2R-3737	Ownership Stencil
2R-4440	Painting Instructions

Revised 7-21-58 Pages 1 to 10

MECHANICAL

REFRIGERATOR CAR

67,000 LBS CAPACITY



LIGHT WEIGHT OF CAR		70,500
CUBIC LOADING CAPACITY		2113
AVAILABLE LOADING HEIGHT		7'-3"
UNDERFRAME	WAUGH HIGH CAPACITY CUSHION	
TRUCKS		NATIONAL C-1
DRAFT GEARS	WM-CG-7	WAUGH EQUIP. CO.
COUPLER	TYPE E	RIGID SHANK
WHEELS		CAST STEEL
AXLE	5½" X 10"	HYATT 4-R-2944
AIR BRAKE	BRAKE CYLINDER RELEASE VALVE, N.Y.A.B. CO.	AB
HAND BRAKE		"AJAX" NO. 14377 NON SPIN
RUNNING BOARD		MORTON
SIDE DOOR	4'-0" SLIDING, 2'-0" SWINGING	Y.S.D. CO.
INSULATION-WALLS	3" K-20, 3" TEXTILE GLASS FIBER	
INSULATION-ROOF	2" K-20, 4" TEXTILE GLASS FIBER	
INSULATION-FLOOR	6" RIGID FOAMED PLASTIC	
REFRIGERATION UNIT		EQUIPCO
DIESEL ENGINE		WITTE-MODEL 100RDA
FUEL CAPACITY	500 GALLON TANK IN ENGINE COMPARTMENT	
ROOF		ALL WELDED
SIDES		ALL WELDED
FLOOR RACKS- METAL SLATS WITH WOOD STRINGERS		

REFERENCE DRAWINGS	
STEEL SHEATHING	136-4275
UNDERFRAME	444-4201
INSULATION-WALLS	274-4250
INSULATION-BULKHEAD	274-4254
WOOD FRAMING "B" END	124-4251
WOOD FRAMING A END	124-4252

PACIFIC FRUIT EXPRESS CO.
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P. F. E. ROSEVILLE	1	1957

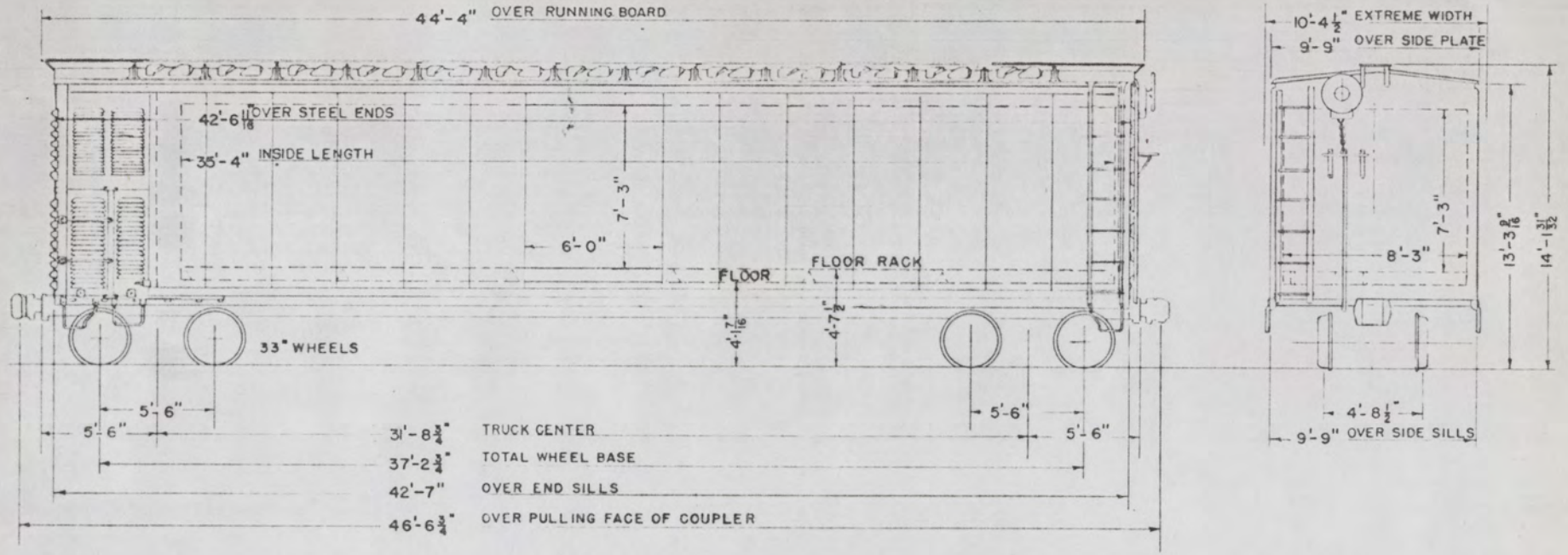
CAR NUMBERS
100001

CAR CLASS	DIAGRAM
R-40-29	R-48

MECHANICAL

REFRIGERATOR CAR

73,000 LBS CAPACITY



LIGHT WEIGHT OF CAR		65200
CUBIC LOADING CAPACITY		2113
AVAILABLE LOADING HEIGHT		7'-3"
UNDERFRAME	GENERAL STEEL CASTINGS CO.	CAST STEEL END
TRUCKS		NATIONAL C-1
DRAFT GEARS - MINER RF-75-M	RUBBER FRICTION	36" POCKET
COUPLER	TYPE E	RIGID SHANK
WHEELS		CAST STEEL
AXLE	5 1/2" X 10"	HYATT 4-R-2944
AIR BRAKE	BRAKE CYLINDER RELEASE VALVE, N.Y.A.B. CO.	AB
HAND BRAKE	"AJAX" NO. 14377	NON SPIN
RUNNING BOARD		MORTON
SIDE DOOR	4'-0" SLIDING, 2'-0" SWINGING	Y.S.D. CO.
INSULATION - WALLS	3" K-20, 3" TEXTILE	GLASS FIBER
INSULATION - ROOF	2" K-20, 4" TEXTILE	GLASS FIBER
INSULATION - FLOOR	6" RIGID FOAMED PLASTIC	
REFRIGERATION UNIT	MODEL 66E8	CARRIER
DIESEL ENGINE		DEUTZ
FUEL CAPACITY	500 GALLON TANK IN ENGINE COMPARTMENT	
SIDES		ALL WELDED
ROOF		ALL WELDED
FLOOR RACKS - HARDWOOD SLATS WITH WOOD STRINGERS		

REFERENCE DRAWINGS	
STEEL SHEATHING	136-4275
UNDERFRAME	444-4202
INSULATION - WALLS	274-4250
INSULATION - BULKHEAD	274-4253
WOOD FRAMING ARRG'T. "B" END	124-4251
WOOD FRAMING ARRG'T. "A" END	124-4252

PACIFIC FRUIT EXPRESS CO.
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P. F. E. ROSEVILLE	1	1957

CAR NUMBERS
100002

CAR CLASS	DIAGRAM
R-40-29	R-49

INDEX TO DRAWINGS

- A -

Aluminum Extrusion	321-3273
Angle Cock U Bolt	161-3637
A-End Framing Arrg't.	123-4279
Axles - 5 x 9	112-3530
Azee Draft Key Retainer	203-3538
Angle Cock	161-3534

- B -

Bulkhead Post Arrg't. Car #100002	123-4280
Bulkhead Post Arrg't. Car #100001	123-4281
Bulkhead Reinforcements Car #100002	123-4282
Brake Equipment Support Car #100001	443-4206
Body Side Bearing	441-4208
Brake Shoe Duplane AAR1-A	162-3536
Brake Shoe Key (Lockey)	162-3537
Bolster Friction Plate	421-3731
Brake Rods	163-2546
Brake Rod Jaw	163-2542
Brake Pipe Anchor	161-3113
Badge Plate	163-3310
Branch Pipe Tee Anchor	161-3771
Brake Rod Eye	163-2543
Bell Crank	162-2267
Bell Crank Chain	162-2762
Belt Rails	124-4251
Belt Rail A End	123-4279
Bulkhead Reinf.	123-4282
Brake Step - Morton	342-3835

- C -

Coupler Centering Device Carrier Iron	202-3257
Condition at Corner Cap	134-4249
Corner Cap	132-4257
Corner Post	133-4258
Corner Post	133-4259
Cushion Gear Follower Plate	201-4215

- C - (Cont'd)

Cushion Gear Link	201-4216
Cushion Gear Spring	201-4217
Cushion Gear Assembly	201-4218
Coupler 4-1/2" Travel Car #100002	202-4222
Carline & Ceiling Nailers	323-3998
Cushion Gear Link Pin	441-4211
Clevis	161-3174
Clevis	161-3171
Center Casting	443-4213
Center Sill Car #100001	444-4220
Center Sill Details Car #100002	443-4223
Center Pin	421-2498
Center Sill Car #100002	443-4223
Coupler Type E	203-2345
Connecting Chain	161-3597
Carline	323-3998
Carline Bracket	121-3674
Ceiling Hangers	122-3692
Ceiling Aluminum	322-3449
Ceiling Nailer Conn.	122-3692

- D -

Door Post	133-4266
Door Hinge Filler	123-4248
Door Stop & Grab Iron Backing Channel	133-4267
Door Header	
Door Arrangement	184-4270
Draft Gear Arrg't. WM-CG-7	201-4214
Draft Lug - Rear	201-4219
Draft Gear Arrg't. RF-75-M	203-3683
Door Track Bracket	184-4271
Dust Guards	421-2887
Duplane AAR-1-A Brake Shoe	162-3536
Dead Lever Fulcrum	421-3642
Dead Lever Fulcrum Brkt.	422-3666
Draft Gear Key	201-3533
Draft Gear Key Retainer Azee	203-3538
Draft Gear Carrier	201-3220

INDEX TO DRAWINGS

- D - (Cont'd)

Door Post Gusset	133-4277
Door Post Gusset	133-4278
Door Rubber Cushion	120-2532
Door Stop R-204	122-3976
Defect Card Holder Flexi	282-3181

- E -

End Sill Angle Car #100002	443-4203
End Sill Angle Car #100001	444-4205
End Post Wood	123-4245
End - Steel-Arrg't.	374-4320
End - Steel-Arrg't.	374-4319

- F -

Flexi Defect Card Holder	282-3181
Friction Wedge	423-3726
Friction Wedge Spring	362-3727
Floor Stringer Arrg't. Details Car #100002	123-4246
Floor Stringer Arrg't. Details Car #100001	123-4247
Framing Arrg't. Wood B End	123-4245
Framing Arrg't. Wood BL BR	124-4251
Framing Arrg't. Wood AL AR	124-4252
Follower Plate	201-4209
Fuel Tank Details	384-4261
Filter Panel Arrg't.	134-4291

- H -

Handholds	342-4288

- I -

Inter. Post @ Comp't.	132-4263
Inter. Post	133-4264
Inter. Post	133-4265
Insulation Application	274-4250
Insulation Application - Bulkhead Car #100002	274-4253
Insulation Application - Bulkhead Car #100001	274-4254

- J -

Journal Bearing	421-3583
Journal Bearing Wedge	422-3581
Journal Lubricator (Rolin)	422-3699
Journal Box Lid & Pin	423-3733
Journal Box Hinge Lug Wear Plate & Bushing	422-3872
Journal Box 5x9 Nat.C-1	423-3871

- K -

Key Slot Reinforcement	443-4212

- L -

Ladders, Side & End	344-4290
"Lockey" Brake Shoe Key	162-3537
Lubricator, Journal Rolin	422-3699

- M -

Metal Sub-Lining @ Blower	122-3561
Machine Compartment Door Arrangement	134-4292

- P -

Placard Board Bracket	283-3721
Push Rod	161-3216
Pins	163-3616

INDEX TO DRAWINGS

- R -

Release Valve Brkt.	161-4015
Release Rod Support Brace	171-4051
Release Rod	163-3722
Retainer Valve Brkt.	371-3641
Release Rod Guide	442-3812
Retainer Pipe Clamp	161-3638
Retainer Pipe Clamp	162-3839
Running Board	344-4233
Roof Arrangement	344-4321

- S -

Steel Details - Underframe Car #100001	134-4205
Slack Adjuster Brkt.	442-4032
Side Plate Channel	134-4256
Sheet Below Door	132-4268
Steel Sheathing & Framing	136-4275
Side Sheets	133-4276
Side Plt. & Door Post Gusset	133-4277
Side Sill & Door Post Gusset	133-4278
Steel Details - Door	184-4272
Steel Details - Underframe Car #100002	443-4203
Slack Adjuster App.	163-3656
Sides - Assembler	136-4275
Side Sill Channel	134-4255
Sill Step at Door	341-2521
Sill Step	441-2989
Springs - Friction Wedge	362-3727
Sub-Floor Car #100002	444-4204
Steel Details Car #100001	444-4205
Stucki Side Bearing	421-3167
Springs - Trucks	362-2415
Steel End	374-4320

- T -

Thermometer Bulb Guard	021-3455
Torque Arm	442-4207
Truck Side Bearing (Stucki)	421-3167
Truck Lever	163-2484
Truck Lever Conn.	161-3114
Truck Side Frame - National	423-4234
Truck Bolster - National	424-4235
Truck Springs	362-2415
Trunnion Link	201-3256
Trunnion Pocket Support	201-3254
Trunnion Pocket Adjust.	203-3258

- U -

Underframe Arrangement Car #100001	444-4201
Underframe Arrangement Car #100002	444-4202
Underframe Details A End	443-4224
Unit Brake Wear Plate UN-116-B	162-3582
Unit Brake Beam	161-3556
Uncoupling Rod Brkt.	441-3774

- W -

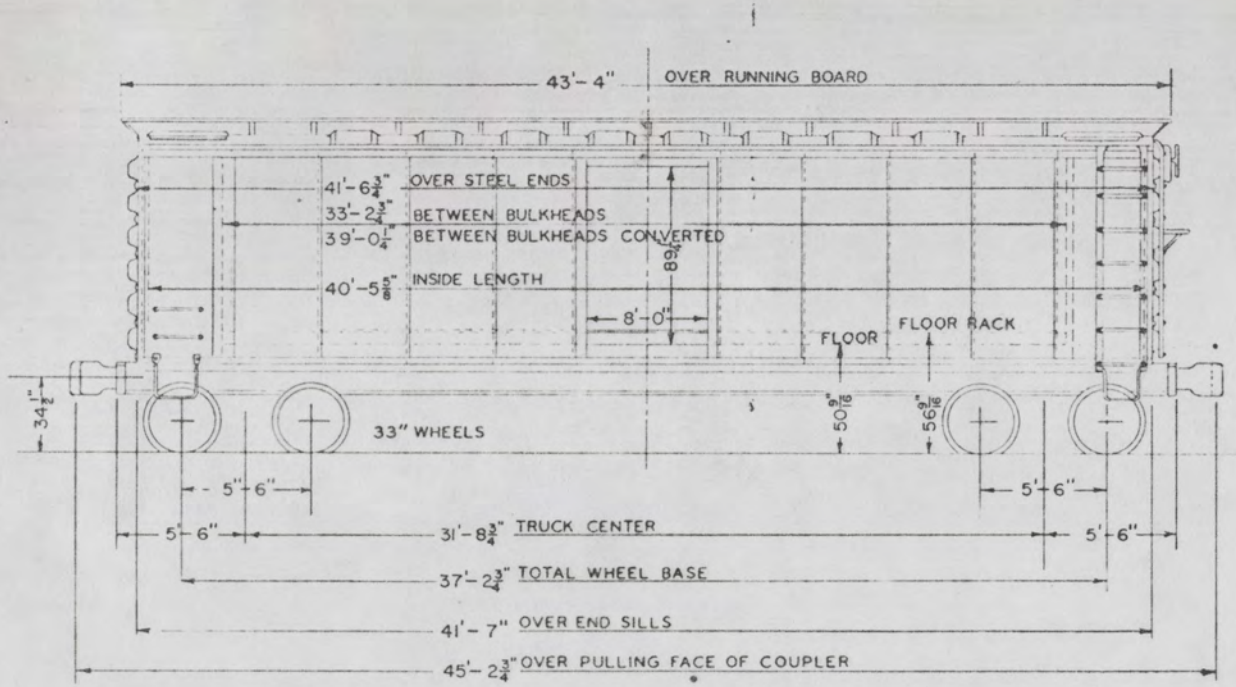
Welded Striker Details	443-4210
Wheels - Cast Steel	112-3572

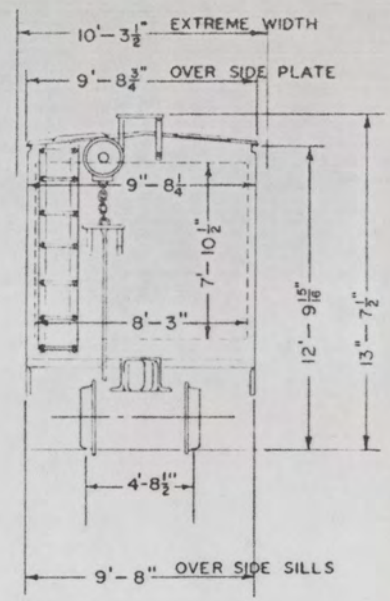
- Y -

Yoke - Coupler (36" Pocket) Car #100002	202-4221

REFRIGERATOR CAR

80,000 LBS. CAPACITY





LIGHT WEIGHT OF CAR	58,800
CUBIC LOADING CAPACITY	2022
AVAILABLE LOADING HEIGHT	5'-11¼"
CAPACITY OF BOTH ICE TANKS	11,500 LBS.
CAPACITY OF BOTH ICE TANKS - HALF STAGE	6,000 LBS.
LOAD LIMIT	77 200 LBS.
CAPACITY	77 000 LBS.
UNDERFRAME - KAISER	ALL WELDED TYPE
TRUCKS - NATIONAL C-1	
WHEELS - CAST STEEL	
AXLES - JOURNALS	5"X 9"
COUPLER - TYPE E RIGID SHANK	
DRAFT GEAR - RUBBER	MINER RF-333
AIR BRAKES - AB, BRAKE CYLINDER RELEASE VALVE - CRERAR ADAMS, NYAB	
HAND BRAKES - AJAX	
SIDE DOOR - 6'-0" SLIDING, 2'-0" SWINGING	Y.S.D. CO.
AIR CIRCULATING FAN - OVERHEAD ELECT.	PRECO
INSULATION - FLOOR 3" K-20, 3" CATTLE HAIR	
INSULATION - WALLS 3" K-20, 3" GLASS FIBER	
INSULATION - ROOF 2" ISOFLEX K-20, 2" COTTON FIBER, 2" MINERAL WOOL	
RUNNING BOARD - GYPSUM	

REFERENCE DRAWINGS	
GENERAL DESIGN	244-3500
STEEL SHEATHING	.134-3575
UNDERFRAME	444-3540
AIR BRAKE ARRG'T.	154-3535
ICE TANK ARRG'T.	264-3555
INSULATION - WALLS	274-3550
INSULATION - ROOF	274-3552
INSULATION - FLOOR	274-3551
LETTERING	304-4030
ALLOCATION OF SPECIALTIES	283-3566

PACIFIC FRUIT EXPRESS CO.
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
S.P.E.CO. LOS ANGELES	100	1957

CAR NUMBERS
11701-11800

CAR CLASS	DIAGRAM
R-40-28	R-47

GROUP INDEX TO DRAWINGS
CARS CLASS R-40-28

Group No. 02 - Heating & Ventilating

Drawing No.	Title
024-3810	Fan Application (Preco AA44 Six Unit)
021-3828	Fan Cable Clips
024-3786	Cable Application at Bulkhead

Group No. 11 - Axles & Wheels

112-3572	Cast Steel Wheel
112-3530	Axle - 5" x 9"

Group No. 12 - Body House

124-3585	Wood Framing Arrg't. - Body
123-3546	Floor Stringer Arrgt. & Details
126-4095	Floor Rack Arrg't.
123-4091	Floor Rack Slat - Wedge
123-4092	Floor Rack Slat - Wedge
123-4093	Floor Rack Slat - Wedge
124-4094	Floor Rack Wood Details
123-4096	Floor Rack Slat - Wedge
123-4097	Floor Rack Slat - End
122-4098	Floor Rack Slat - End
122-4099	Floor Rack Slat - End
123-4101	Floor Rack Slat - End
122-4102	Floor Rack Slat
122-4103	Floor Rack Slat
122-4104	Floor Rack Slat
122-4105	Floor Rack Slat at Doorway Handhold
122-4106	Floor Rack Slat - Inter.
122-4107	Floor Rack Slat - Inter.
122-3567	Floor Rack Hinge
122-3568	Floor Rack Hinge Butt
123-4190	Plywood Sub Lining

INDEX TO DRAWINGS

R-40-28

Group No. 12 - Body House (Cont'd)

Drawing No.	Title
122-3617	Ceiling Moulding
122-3820	Screen Post and Lining Nailer
122-3594	Spacer Blocks
121-3595	Carline Bracket
123-3959	Coping Board & Belt Rail
123-3639	Door Post and Facing
123-3668	Sub Lining Nailer
123-3778	Floor Rack Holder Arrg't.
122-3910	Threshold Filler and Header
122-3669	End Coping Board & Belt Rail
122-3765	Bulkhead Pad
121-3962	Floor Flashing
122-3804	Doorway Flashing
122-3617	Standard Pattern - Wood
121-3806	Ceiling Beam Filler
122-2893	Door Stop
121-3802	Threshold Filler Strip
123-2207	Bolt Head Locks
124-4150	Lading Strap Anchor Application
125-3791	Threshold Plate
123-3959	Coping Board and Belt Rail
122-3668	Sub Lining Nailer
122-3854	Door Section Corner Rider
122-3853	Floor Rack Doorway Handhold
121-3738	Doorway Section Hinge Plate
121-3845	Floor Rack Hook Plate
122-2529	Floor Rack Gate Hinge
122-2893	Door Step
121-2843	Floor Rack Holder Hook
121-3844	Floor Rack Holder Base
121-3845	Floor Rack Holder Plate
122-4191	Sub Lining Tank
122-4192	End Framing Arrg't. - Wood
122-3869	Floor Rack Holder Application
123-3961	Lading Strap Anchor
122-3819	End Screen Nailer Application

Group No. 13 - Body House - Exterior

134-3950	Steel Sheathing & Framing
132-3967	Corner Post
132-3968	Corner Cap
132-3805	Ceiling Beam Bracket
133-4078	Welding Details (Side)

Group No. 13 - Body House - Exterior (Cont'd)

Drawing No.	Title
	Side Sill Angle
131-4064	Top Bolting Clip at Corner Post
131-4055	Bolting Clip at Door on Top Gusset
131-4081	Threshold Plate Support
131-4079	Door Post & Side Plate Conn.
131-4080	Threshold Filler Support at Door Guide
132-4059	Door Stop Back Angle
	Filler at Door Header
131-4061	Door Hook Backing Angle
	Under Door Sheet
132-4056	Side Sill Gusset at Door Post
122-4054	Side Plate Gusset at Door Post
131-4057	Bolting Clip at Door Post Gusset
131-4063	Bottom Bolting Bracket at Corner Post
	Door Header
133-4074	Side Sheet
133-4076	Side Sheet
133-4071	Side Sheet
133-4069	Side Sheet
133-4067	Side Sheet
133-4090	Side Sheet
	Side Sheet
	Side Sheet at Door
	Side Sheet
	Side Post & Side Plate Conn.
134-4111	Side Plate
132-3967	Corner Post

Group No. 15 - Brake Arrangement

154-3535	Air Brake Arrangement

Group No. 16 - Brake Details

161-4051	Release Rod Support Bracket
161-3534	Angle Cock - Wabcoseal
162-3536	Brake Shoe
161-3537	Brake Shoe Key

Group No. 16 - Brake Details

Drawing No.	Title
161-3556	Unit Brake Beam - A.S.F. Cast Steel
163-3557	Air Brake Pipe Details
162-3582	Wear Plate - Unit Brake Beam
161-3591	Truck Lever Connection
161-3597	Connecting Chain
161-3637	Angle Cock U Bolt
161-3638	Retainer Pipe Clamp
163-3656	Universal Slack Adjuster Application
161-3702	Lever 11-3/4" x 15-1/4"
163-3722	Release Rod
161-3771	Branch Pipe Tee Anchor Washer
161-3782	Lever 16-1/2" x 17-1/2"
163-2484	Truck Lever 7" x 14"
161-3591	Truck Lever Connection
162-3793	Unit Brake Beam - Unit
163-2542	Brake Rod Jaw
161-3216	Push Rod
163-3616	Forged Pins
163-3310	Badge Plate
163-2543	Brake Rod Eyes
163-2546	Brake Rods
161-3174	Conn. Chain Clevis
162-2267	Bell Crank
162-2762	Bell Crank Chain
161-3814	Brake Pipe Anchor (Gustin Bacon)
162-3839	3/8" Pipe Clamp (Cenco Welder)
162-3840	3/8" Pipe Claim (Cenco)
161-3848	Filler @ Corner Post
161-4015	Release Valve Bracket
161-3113	Brake Pipe Anchor 1-1/4

Group No. 18 - Side Doors

184-3970	Door Arrangement
182-3571	Side Door Hinge
183-3579	Door Hook & Bumper
181-3672	Door Striking Plate
181-3684	Door Corner Angle
183-3973	Wood Details - Door 2 Ft.
	Wood Details - Door 6 Ft.
183-3965	Steel Details - Door

Group No. 18 - Side Doors (Cont'd)

Drawing No.	Title
183-3974	Door Sheets
441-3963	Door Track Support
122-3910	Threshold Filler & Header
181-3802	Threshold Filler Strip
	Door Steel, Fixtures
	Door Steel, Details
183-3995	Door Operating Crank
181-2558	Operating Clevis
183-4006	Operating Lever
181-2559	Connecting Pipe Housing - Door
182-2739	Top Operating Crank
181-2566	Sealing Cam - Door
183-3996	Screw Shaft - Bracket
181-2904	Screw Shaft
182-2909	Lever Support
183-2574	Operating Lever
182-2898	Operating Cam - Door
181-2906	Aux. Lock Bolt
182-3993	Aux. Lock Door Bracket
181-2903	Connecting Pipe Extension - Door
181-3823	Door Hinge Pin & Key
183-3780	Lining Nailer
184-4034	Door Fixture Arrg't. - Miner
	Door Gasket - Ralphs Pugh

Group No. 20 - Draft Gears

203-3775	Draft Gear Arrangement
202-3538	Draft Key Retainer - Azee
201-3596	Follower Plate
203-2346	E-60 Coupler
203-3474	Y-40 Yoke
207-3817	Coupler Release Rigging
201-3533	Draft Gear Key
202-3257	Centering Device Carry Iron
201-3256	Trunnion Link
201-3254	Trunnion Pocket Supports
201-3220	Draft Gear Carrier
201-3596	Follower Plate
203-3258	Adjustable Trunnion Pocket
201-3797	Rubber Draft Gear - Miner RF-333

Group No. 24 - General Arrangement

Drawing No.	Title
244-3500	General Design
444-3540	Underframe Arrangement
124-3585	Wood Framing Arrangement -
264-3555	Ice Tank Arrangement
024-3810	Fan Application
154-3535	Air Brake Arrangement

Group No. 26 - Ice Tank

264-3555	Ice Tank Arrangement
263-3559	Well Trap Assembly
262-3562	Floor Pan
262-3587	Track Well Flashing
263-3764	Drain Trough
263-3549	Ice Tank Screens
264-3734	Condition at Floor Pan
263-3761	Header Cap
262-3924	Bulkhead Section
262-3925	Bulkhead Section
262-3926	Bulkhead Post Side & Inter.
262-3927	Bulkhead Post Center
262-3945	Grate Hinge Butt-Full Tank
262-3936	Stage Grate Hinge Butt. - Side
262-3937	Stage Grate Hinge Butt. - Center
262-3933	Stage Grate Hinge Butt. - Inter.
261-3943	Bulkhead Bottom Stop
261-3946	Grate Lock Full - Tank
261-3948	Grate Lock - Stage Ice
261-3947	Grate Lock Bracket - Stage Ice
261-3944	Bulkhead Bottom Rail Hook Handle
261-3940	Bottom Rail Hook Bracket
261-3928	Bottom Rail Hook
261-3942	Floor Rack Holder Hook
263-3911	Bulkhead Floor Rack Support - Right
263-3912	Bulkhead Floor Rack Support - Left
262-3934	Bulkhead Floor Rack Filler Channel - Front
262-3935	Bulkhead Floor Rack Filler Channel - Inter.
261-3941	Bulkhead Floor Rack Hinge Clip
263-3918	Bulkhead Floor Rack
262-3932	Bulkhead Rear Lock
262-3919	Bulkhead Trolley Assembly
264-3756	Drain Spout Application

Group No. 26 - Ice Tank (Cont'd)

Drawing No.	Title
263-3920	Bulkhead Trolley Track
263-3949	Lift Lever
261-3951	Lift Lever Hold Down
261-3952	Lift Lever Hook
261-3921	Hatch Lock Assembly
261-3938	Lift Lever Flashing
261-3787	Cable Shield
263-3764	Drain Trough
261-3788	Shield Support Clip
261-3565	Bulkhead Pins
261-3824	Drain Spout Pin
262-3921	Hatch Lock Assembly
261-3939	Bulkhead Center Post Cover Plate
262-3929	Bulkhead Post Channel
263-3916	Bulkhead Grate, Right
263-3917	Bulkhead Grate, Left
263-3915	Bulkhead Grate
263-3913	Bulkhead Grate, Stage Side
263-3914	Bulkhead Grate, Stage Inter.
262-3930	Grate Rest - Full Tank
262-3931	Grate Rest - Stage
261-2009	Special Bolts
261-3923	Bulkhead Floor Rack Slat
261-3922	Bulkhead Hanger

Group No. 27 - Insulation

274-3550	Insulation Application - Walls
274-3551	Insulation Application - Floor
274-3552	Insulation Application - Roof
274-3750	Plan View Thru Wall

Group No. 28 - Miscellaneous

283-3721	Placard Board
283-3181	Defect Card Holder - Flexi
283-3566	Allocation of Specialties
283-4035	Ownership Stencil

Group No. 30 - Painting, Lettering & Numbering

Drawing No.	Title
303-3705	1" x 1-1/2" Letter & Figures
303-3706	2" Letter & Numbers
303-3707	3" Letters
303-3708	3" Numbers & Star
303-3709	4" Lettering (A to N)
303-3710	4" Lettering (O to Z)
303-3711	4" Numbers
303-3712	7" Numbers
303-3713	7" Numbers
306-3714	7" Stencil "Pacific Fruit Express"
304-3715	9" Stencil P.F.E.
	Lettering on Refrigerator Cars
303-3599	Southern Pacific Medallion
304-3598	Union Pacific Medallion
303-3704	Stenciling for U.P. Medallion
302-4112	Painting Instructions

Group No. 32 - Roof

323-3547	Hatch Plug Arrgt. & Details
323-3548	Hatch Plug Steel Cover
323-3784	Steel Roof Details
323-3785	Steel Roof Arrangement
323-3576	Wood Framing Arrgt. - Ceiling
323-3577	Wood Framing Details - Ceiling
321-3593	Hatch Hinges
321-3753	Hatch Carline Reinforcement
323-3754	Bulkhead Ceiling Beam
322-3756	Hatchway Flashing
321-3757	Hatch Cover Stop
321-3758	Hatch Cover Bumper
322-3759	Hatch Cover Bracket
323-2752	Operating Lever Fulcrum
321-3762	Hatch Cover Lifter
322-3763	Operating Lever
321-3772	Hatch Lock Backing Plate
323-3553	Running Board Saddle Details
321-3777	Running Board Support

Group No. 32 - Roof (Cont'd)

Drawing No.	Title
323-2913	Hatch Closure Gasket

Group No. 34 - Safety Appliances

342-3688	Handholds
343-3590	Side & End Ladders
341-2521	Sill Step at Door
261-2009	Special Bolts
342-2019	G-T Washer
343-3971	Running Board - Gypsum
342-3836	Brake Step - Gypsum

Group No. 36 - Springs

421-3723	Ride Control Coil Spring
362-2415	Truck Spring 3-11/16" Travel

Group No. 37 - Steel Ends

372-3563	Steel End Reinforcing Beam
371-3641	Retainer Valve Bracket
373-3755	Steel End Arrangement
371-3769	Trolley Housing Bracket
371-3773	Steel End Bolting Angle
371-3777	Running Board Support
371-3779	Brake Step Bracket
371-3781	Hand Brake Housing Support
373-3966	Steel End Details
311-4014	R.B. Support Brace
372-4043	Steel End Stud Location

Group No. 42 - Trucks

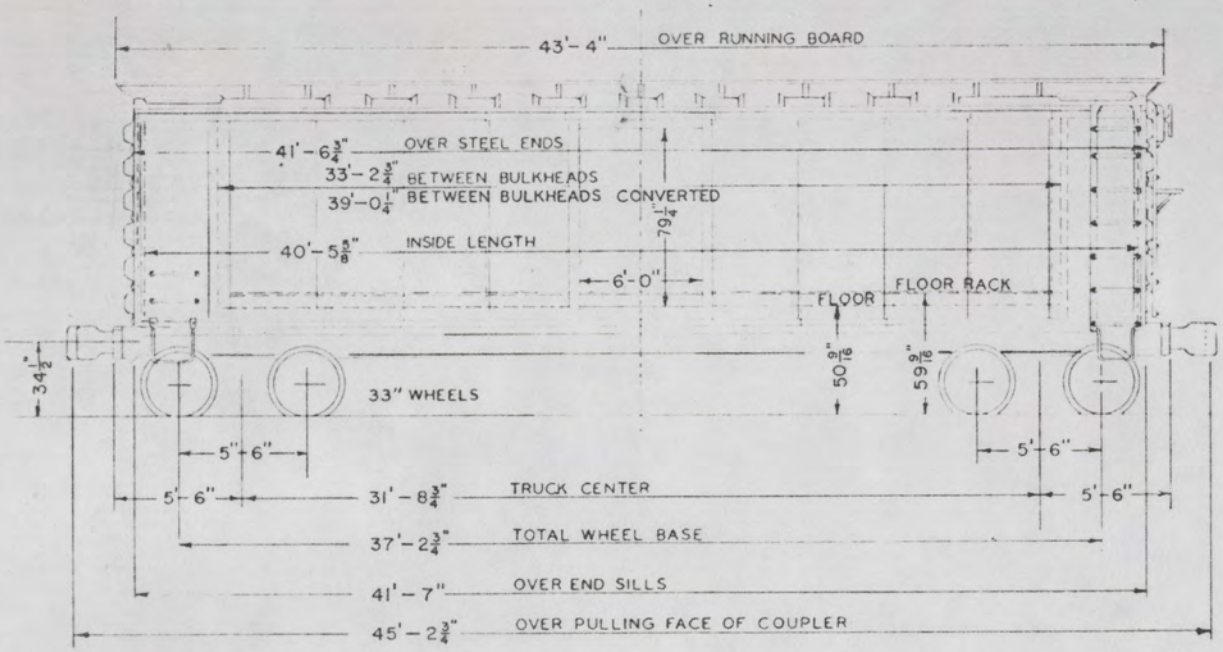
Drawing No.	Title
421-3583	Journal Bearing
	Journal Lubricator - Journapak
421-3642	Dead Lever Fulcrum
423-3726	Friction Wedge - National C-1
423-3728	Truck Bolster - National C-1
423-3729	Side Frame - National C-1
423-3730	Truck Arrgt. - National C-1
421-3731	Bolster Friction Plate - National C-1
423-3871	Journal Box Lid - National
422-3581	Journal Bearing Wedge
421-3887	Dust Guard
421-3167	Side Bearing - Stucki
421-2498	Center Pin
422-3666	Dead Lever Fulcrum Bracket

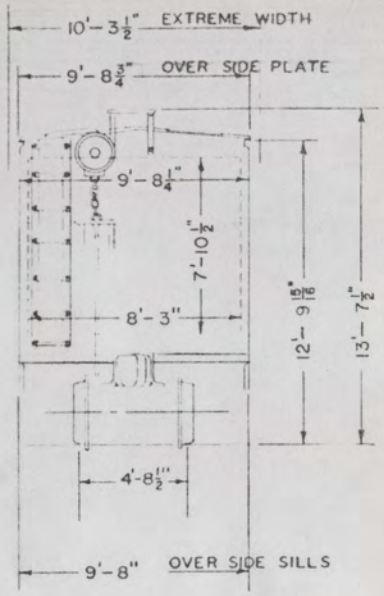
Group No. 44 - Underframe

442-3812	Release Rod Guide
446-4140	Underframe Arrangement - Kaiser
441-4137	Channel Crosstie
444-4138	Bolster & Crossbearer
444-4139	Center Sill Assembly
446-4141	Underframe Assembly
442-3752	Slack Adjuster Brackets
441-3766	Drain Spout Support
441-3774	Uncoupling Rod Bracket
443-3569	Body Center Plate
444-3645	Bolster Center Filler
442-3615	Front Draft Gear Stop
441-2989	Sill Step
441-3909	End Sill Angle
446-4142	Underframe Sections & Details
446-4143	Underframe Sections & Details Assembly
444-4144	Underframe Stringers & Clips
444-4145	Reservoir Supports
443-4146	Diagonal Brace
444-4147	Striker Arrg't. & Details
442-4148	End Sill - L.H.
442-4149	End Sill - R.H.
124-4150	Lading Strap Anchors Application
442-4151	End Sill Angle
441-4152	Bolster Top Plate
442-4153	Brake Rod & Branch Pipe Tee Support
442-4154	Bolster Bottom Tie Plate
442-4155	Underframe Misc. Supports

REFRIGERATOR CAR

80,000 LBS. CAPACITY





LIGHT WEIGHT OF CAR	58,800
CUBIC LOADING CAPACITY	2022
AVAILABLE LOADING HEIGHT	5'-11¼"
CAPACITY OF BOTH ICE TANKS	11,500 LBS.
CAPACITY OF BOTH ICE TANKS - HALF STAGE	6,000 LBS.
LOAD LIMIT	77,200 LBS.
CAPACITY	77,000 LBS.
UNDERFRAME - GUNDERSON, KAISER	ALL WELDED TYPE
TRUCKS - STABILIZED S-2-C, A-3 RIDE CONTROL, CUSHION RIDE, C-1	
WHEELS - CAST STEEL	
AXLES - JOURNALS	5" X 9"
COUPLER - TYPE E RIGID SHANK	
DRAFT GEAR - RUBBER	
AIR BRAKES - AB, BRAKE CYLINDER RELEASE VALVE, CRERAR ADAMS, NYAB	
HAND BRAKES - AJAX, CHAMPION, EQUIPCO, MINER, UNIVERSAL	
SIDE DOOR - SLIDING & SWINGING 2 PIECE	
AIR CIRCULATING FAN - OVERHEAD ELECT.	EQUIPCO, PRECO
INSULATION - FLOOR 6" RIGID FOAMED PLASTIC OR 3" CATTLE HAIR, 3" K-20	
INSULATION - WALLS 3" TEXTILE GLASS FIBER OR GLASS WOOL, 3" K-20	
INSULATION - ROOF 2" ISOFLEX K-20, 2" COTTON FIBER, 2" MINERAL WOOL, TEX. GLASS FIB.	

REFERENCE DRAWINGS	
GENERAL DESIGN	244-3500
STEEL SHEATHING	136-3575
UNDERFRAME	444-3540
AIR BRAKE ARRG'T.	154-3535
ICE TANK ARRG'T.	264-3555
INSULATION - WALLS	274-3550
INSULATION - ROOF	274-3552
INSULATION - FLOOR	274-3551
LETTERING	304-4030
ALLOCATION OF SPECIALTIES	283-3566

PACIFIC FRUIT EXPRESS CO.

CAR DEPARTMENT — SAN FRANCISCO, CALIF.

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
S.P.E. CO. ROSEVILLE LOS ANGELES COLTON	1700	1956

CAR NUMBERS

10001-11700

CAR CLASS	DIAGRAM
R-40-27	R-46

GROUP INDEX TO DRAWINGS
CARS CLASS R-40-27

Group No. 02 - Heating & Ventilating

Drawing No.	Title
026-4160	Fan Application (Equipco 6 Fan P-52-4)
024-3810	Fan Application (Preco AA44 Six Unit)
021-3828	Electric Air Circulator Jumper Cable
021-3829	Air Circulator Rubber Grommet
020-3830	Air Circulator Header Cap Grommet
022-3831	Air Circulator Terminal Brkt. Assembly
026-3832	Cable Application at Bulkhead - Equipco
021-3852	Fan Panel Flashing
024-4007	Fan Panel Application (Preco AD 44 Four Unit)
024-3786	Cable Application at Bulkhead - Preco
024-2582	Alternator Assembly
021-3807	Fan Cable Clip
021-4116	Wood Filler at Fan Panel
023-3304	Fan Name Plate Stencil
023-4156	Car Wiring Diagram
023-4157	Car Wiring Diagram
023-4158	Side Sill Bearing Assembly
023-4159	Generator Assembly
024-4161	Fan Panel Assembly - Left
024-4162	Fan Panel Assembly - Right
024-4163	Lever Guide Application
023-4164	Drive Support
022-4165	Lift Lever
021-4166	Terminal Block Mounting Assembly
021-4167	Jumper Cable
021-4168	Fan Terminal Box
022-4169	Apron Extension Details
026-4170	Fan Panel Application - 4 Fan - P-54-3
024-4171	Fan Panel Assembly
022-4172	Center Sill Bearing Assembly
021-4173	Side Sill Anchor Plate
022-4174	Fuse Box Assembly
021-4176	Operator Stencil
021-4177	Lever Hook
021-4178	Pre-Cool Motor Support Bracket
021-4179	Cover Plate
021-4180	Fan Panel & Cable Clip
021-4181	Name Plate
021-4182	Fan Stencil
022-4183	Lever Guide
022-4184	Bill of Material
022-4185	Bill of Material
022-4186	Bolt List
022-4187	Material List
021-4189	Spacer Washer
026-4175	Drive Application - Equipco

Group No. 11 - Axles & Wheels

112-3572	Cast Steel Wheel
112-3530	Axle - 5" x 9"

Group No. 12 - Body House

123-2207	Bolt Head Lock
124-3545	Wood Framing Arrgt. - Body
123-3546	Floor Stringer Arrgt. & Details
124-3850	Floor Rack Arrgt.
122-3567	Floor Rack Hinge
122-3568	Floor Rack Hinge Butt
123-3578	Plywood Sub Lining
122-3617	Ceiling Moulding
121-3820	Lining Nailers
122-3594	Spacer Blocks
121-3595	Carline Bracket
123-3634	Coping Board & Belt Rail
123-3639	Door Post & Facing
122-3668	Sub Lining Nailer
123-3778	Floor Rack Holder Arrg't.
123-3857	Floor Rack Slat - Wedge
123-3859	Floor Rack Slat - Wedge
123-3858	Floor Rack Slat - Wedge
123-3860	Floor Rack Slat - Wedge
123-3855	Floor Rack Slat - End
123-3861	Floor Rack Slat - End
123-3862	Floor Rack Slat - End
123-3856	Floor Rack Slat - End
123-3863	Floor Rack Slat at Hinge - End
123-3864	Floor Rack Slat at Hinge - End
123-3865	Floor Rack Slat at Doorway Handhold
123-3866	Floor Rack Slat at Doorway Handhold
123-3868	Floor Rack Slat - Inter.
123-3867	Floor Rack Slat - Inter.
122-3854	Doorway Section Corner Rider
122-3853	Doorway Handhold
120-2532	Rubber Cushion
121-3636	Lining Reinforcement
121-3735	Floor Rack Hinge Plate - Right
122-2529	Floor Rack Gate Hinge
122-2893	Door Step
122-3790	Threshold Plate
122-3669	End Coping Board & Belt Rail
122-3765	Bulkhead Pad
121-3767	Floor Flashing
121-3768	Doorway Flashing
122-3617	Standard Patterns - Wood
121-3806	Ceiling Beam Filler
124-3851	Floor Rack Stringer - Details
126-3850	Floor Rack Arrgt.
122-3805	Ceiling Beam Bracket
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
122-3954	Sub Lining Ice Tank
123-3816	End Framing Arrgt. - Wood
122-3869	Floor Rack Holder Application
123-4150	Lading Strap Anchors
122-3819	End Screen Nailer Application
181-3801	Threshold Filler Strip
123-3669	End Coping Board & Belt Rails
123-4046	Floor Stringer Arrgt. & Details (Styrofoam)

Drawing No.	Group No. 13 - Body House - Exterior
134-3575	Steel Sheathing and Framing
133-4066	Corner Post
132-3968	Corner Cap
133-4053	Door Post
133-4078	Welding Details (Side)
134-4077	Side Sill Angle
131-4064	Top Bolting Clip at Corner Post
131-4055	Bolting Clip at Door on Top Gusset
131-4081	Threshold Plate Support
131-4079	Door Post &Side Plate Conn.
131-4080	Threshold Filler Support at Door Guide
132-4059	Door Stop Back Angle
132-4060	Filler at Door Header
132-4061	Door Hook Backing Angle
132-4058	Under Door Sheet
132-4056	Side Sill Gusset at Door Post
132-4054	Side Plate Gusset at Door Post
131-4057	Bolting Clip at Door Post Gusset
131-4063	Bottom Bolting Bracket at Corner Post
133-4068	Door Header
133-4074	Side Sheet
133-4076	Side Sheet
133-4071	Side Sheet
133-4069	Intermediate Post
133-4067	Side Sheet
133-4090	Side Sheet
131-4082	Side Post & Side Plate Conn.
132-4073	Side Sheet
132-4072	Side Sheet at Door
132-4065	Side Sheet
134-4109	Side Plate
134-4110	Side Plate (Superior Door)
132-3967	Corner Post
136-3975	Sheathing & Framing (Superior Door)
131-4052	Door Post Bolting Clip
182-4108	Door Gasket - Am. R. Products Co.

Group No. 15 - Brake Arrangement

154-3535	Air Brake Arrangement
123-3816	End Framing Arrangement
3R-3557	Draft Gear Arrangement (Miner FR-16)
3R-3775	Draft Gear Arrangement (Miner RF-333)
203-3799	Draft Gear Arrangement (Cardwell R-20)

Group No. 16 - Brake Details

161-4051	Release Rod Support Bracket
161-3534	Angle Cock - Wabcoseal
162-3536	Brake Shoe
161-3537	Brake Shoe Key
161-3556	Unit Brake Beam - A.S.F. Cast Steel
163-3557	Air Brake Pipe Details
161-3171	Conn. Chain Clevis
162-3582	Wear Plate - Unit Brake Beam
161-3591	Truck Lever Connection
161-3597	Connecting Chain
161-3637	Angle Cock U Bolt
161-3638	Retainer Pipe Clamp
163-3656	Universal Slack Adjuster Application
161-3702	Lever 11-3/4" x 15-1/4"
163-3722	Release Rod
161-3771	Branch Pipe Tee Anchor Washer
161-3782	Lever 16-1/2" x 17-1/2"
163-2484	Truck Lever 7" x 14"
162-3792	Unit Brake Beam - "Creco"
162-3793	Unit Brake Beam - Unit
163-2542	Brake Rod Jaw
161-3216	Push Rod
163-3616	Forged Pins
163-3310	Badge Plate
163-2543	Brake Rod Eyes
163-2546	Brake Rods
161-3174	Conn. Rod Clevis
162-2267	Bell Crank
162-2762	Bell Crank Chain
161-3814	Brake Pipe Anchor (Gustin Bacon)
162-3839	3/8" Pipe Clamp (Cenco Welder)
162-3840	3/8" Pipe Clamp (Cenco)
161-3848	Filler @ Corner Post
161-4015	Release Valve Bracket
161-4048	Retainer Pipe Clamp Reinf.
161-3113	Brake Pipe Anchor 1-1/4"

Group No. 18 - Doors

182-3842	Aux. Door Stile (Am. Rubber Gasket)
182-3843	Aux. Door Stile (Am. Rubber Gasket)
184-3800	Door Arrangement (Superior Sliding)
182-2739	Operating Crank
184-3570	Door Arrangement (Miner Fixtures)
182-3571	Side Door Hinge
183-3579	Door Hook & Bumper (Miner)
181-3672	Door Striking Plate
181-3684	Door Corner Angle
183-3794	Wood Details - Door
183-3795	Steel Details - Door
181-3815	Threshold Filler & Header
181-3801	Threshold Filler Strip
182-3994	Door Steel, Fixtures
183-3964	Door Steel Details
183-3995	Door Operating Crank
181-2558	Operating Clevis
183-4006	Operating Lever
181-2559	Connecting Pipe Housing - Door
182-2739	Top Operating Crank
181-2568	Sealing Cam - Door
183-3996	Screw Shaft - Bracket
181-2904	Screw Shaft
182-2909	Lever Support
183-2574	Operating Lever
182-2898	Operating Cam - Door
181-2906	Aux. Lock Bolt
182-3993	Aux. Lock Door Bracket
181-2903	Connecting Pipe Extension - Door
181-3823	Door Hinge Pin & Key
184-4070	Door Arrangement (Universal Hardw.)
183-3780	Lining Nailer
183-3973	Wood Details - 2 Ft. Door
184-4034	Door Fixture Arrg't. - Miner
183-4085	Door Sheets
182-4108	Door Gasket - (Am. Rubber)
182-4089	Door Hold Open Bracket (K-2)
182-4088	Door Hold Open Bracket (K-1)

Group No. 20 - Draft Gears

203-4114	Draft Gear Arrangement - National
202-3538	Draft Key Retainer - Azee
203-2346	E-60 Coupler
203-3474	Y-40 Yoke
207-3817	Coupler Release Rigging
201-3533	Draft Gear Key
202-3257	Centering Device Carry Iron
201-3256	Trunnion Link
201-3254	Trunnion Pocket Supports
201-3220	Draft Gear Carrier
201-3596	Follower Plate
203-3258	Adjustable Trunnion Pocket
203-2813	Rubber Draft Gear - Waugh WM-4-6R

Group No. 20 - Draft Gears (Cont'd)

201-3703	Rubber Draft Gear - Nat. MF-400
201-3796	Rubber Draft Gear - Miner FR-16
201-3797	Rubber Draft Gear - Miner RF-333
203-2813	Rubber Draft Gear - Waugh WM-4-6-R
201-3799	Rubber Draft Gear - Cardwell R-20
202-4033	Coupler Release Rigging - Details

Group No. 24 - General Arrangement

244-3500	General Design
444-3540	Underframe Arrangement
124-3545	Wood Framing Arrangement
264-3555	Ice Tank Arrangement
024-3560	Fan Application

Group No. 26 - Ice Tanks

264-3555	Ice Tank Arrangement
263-3559	Well Trap Assembly
262-3562	Floor Pan
262-3587	Track Well Flashing
263-3764	Drain Trough
263-3549	Ice Tank Screens
264-3734	Condition at Floor Pan
263-3761	Header Cap
262-3924	Bulkhead Section
262-3925	Bulkhead Section
262-3926	Bulkhead Post Side & Inter.
262-3927	Bulkhead Post Center
262-3945	Grate Hinge Butt - Full Tank
262-3936	Stage Grate Hinge Butt - Side
262-3937	Stage Grate Hinge Butt - Center
262-3933	Stage Grate Hinge Butt - Inter.
261-3943	Bulkhead Bottom Stop
261-3946	Grate Lock Full - Tank
261-3948	Grate Lock - Stage Ice

Group No. 26 - Ice Tanks (Cont'd)

261-3947	Grate Lock Bracket - Stage Ice
261-3944	Bulkhead Bottom Rail Hook Handle
261-3940	Bottom Rail Hook Bracket
261-3928	Bottom Rail Hook
261-3942	Floor Rack Holder Hook
263-3911	Bulkhead Floor Rack Support - Right
263-3912	Bulkhead Floor Rack Support - Left
262-3934	Bulkhead Floor Rack Filler Channel - Front
262-3935	Bulkhead Floor Rack Filler Channel - Inter.
261-3941	Bulkhead Floor Rack Hinge Clip
263-3918	Bulkhead Floor Rack
262-3932	Bulkhead Rear Lock
262-3919	Bulkhead Trolley Assembly
263-3920	Bulkhead Trolley Track
263-3949	Lift Lever
261-3951	Lift Lever Hold Down
261-3952	Lift Lever Hook
261-3922	Hatch Lock Assembly
261-3938	Lift Lever Flashing
261-3787	Cable Shield
263-3764	Drain Trough
261-3788	Shield Support Clip
261-3565	Bulkhead Pins
261-3824	Drain Spout Pin
262-3921	Hatch Lock Assembly
261-3939	Bulkhead Center Post Cover Plate
262-3929	Bulkhead Post Channel
263-3916	Bulkhead Grate, Right
263-3917	Bulkhead Grate, Left
263-3915	Bulkhead Grate
263-3913	Bulkhead Grate,Stage Side
263-3914	Bulkhead Grate,Stage Inter.
262-3930	Grate Rest - Full Tank
262-3931	Grate Rest - Stage
261-2009	Special Bolts
261-3923	Bulkhead Floor Rack Slat
264-3756	Drain Spout Application
1R-4662	Ceiling Beam Reinforcement

Group No. 27 Insulation

274-3550	Insulation Application - Walls
274-3551	Insulation Application - Floor
274-3552	Insulation Application - Roof

Group No. 28 - Miscellaneous

283-3721	Placard Board
282-3181	Defect Card Holder - Flexi
283-3566	Allocation of Specialties
283-4035	Ownership Stencil

Group No. 30 - Painting, Lettering & Numbering

303-3705	1" x 1-1/2" Letter & Figures
303-3706	2" Letter & Numbers
303-3707	3" Letters
303-3708	3" Nu mbers & Star
303-3709	4" Lettering (A to N)
303-3710	4" Lettering (O to Z)
303-3711	4" Numbers
303-3712	7" Numbers
303-3713	7" Numbers
306-3714	7" Stencil "Pacific Fruit Express"
304-3715	9" Stencil P.F.E.
304-4030	Lettering on Refrigerator Cars
303-3599	Southern Pacific Medallion
304-3598	Union Pacific Medallion
303-3704	Stenciling for U.P. Medallion
302-4112	Painting Instructions

Group No. 32 - Roof

323-3547	Hatch Plug Arrgt. & Details
323-3548	Hatch Plug Steel Cover
323-3784	Steel Roof Details
324-3785	Steel Roof Arrangement - Morton
323-3576	Wood Framing Arrgt. - Ceiling
323-3577	Wood Framing Details - Ceiling
321-3593	Hatch Hinges
321-3753	Hatch Carline Reinforcement
323-3754	Bulkhead Ceiling Beam
322-3756	Hatchway Flashing

Group No. 32 - Roof (cont'd)

321-3757	Hatch Cover Stop
321-3758	Hatch Cover Bumper
322-3759	Hatch Cover Bracket
322-2752	Operating Lever Fulcrum
322-3763	Operating Lever
321-3772	Hatch Lock Backing Plate
323-3553	Running Board Saddle Details
321-3777	Running Board Support
323-2913	Hatch Closure Gasket
322-3803	Hatchway Framing - Details
324-3734	Hatch Closure Arrangement
324-3558	Hatch Frame & Carline Assembly
321-3806	Ceiling Beam Filler
322-3870	Fulcrum Hinge Bracket
321-3772	Lock Bracket Backing Plate
324-3754	Ceiling Beam
324-3969	Steel Roof Arrangement - Gypsum

Group No. 34 - Safety Appliances

343-3553	Running Board Saddles - Details
342-3688	Handholds
343-3590	Side & End Ladders
341-2521	Sill Step at Door
261-2009	Special Bolts
341-3019	G-T Washer
344-3972	Running Board - Morton
343-3971	Running Board - Gypsum
342-3835	Brake Step - Morton
342-3836	Brake Step - Gypsum

Group No. 36 - Springs

362-3696	Truck Springs - Barber
421-3723	Ride Control Coil Spring
362-3727	Friction Wedge Spring - Nat. C-1
362-3749	Friction Wedge Spring - Buckeye
362-2415	Truck Spring 3-11/16" Travel
362-3727	Spring - Friction Wedge Nat. C-1

Group No. 37 - Steel Ends

371-3813	Retainer Pipe Clamp
372-3563	Steel End Reinforcing Beam
371-3641	Retainer Valve Bracket
374-3755	Steel End Arrangement
372-3769	Trolley Housing Bracket
371-3773	Steel End Bolting Angle
371-3777	Running Board Support
371-3779	Brake Step Bracket
371-3781	Hand Brake Housing Support
374-3966	Steel End Details
311-4014	R.B. Support Brace
372-4043	Steel End Stud Location

Group No. 42 - Trucks

421-3583	Journal Bearing
423-3693	Side Frame - Barber
423-3694	Bolster - Barber
423-3695	Truck Arrangement - Barber
423-3697	Friction Casting - Barber
421-3698	Wear Plate - Barber
422-3699	Journal Lubricator - Rolin
421-3844	Dead Lever Fulcrum
423-3718	Bolster - A-3
423-3719	Side Frame - A-3
423-3720	Truck Arrgt. - A-3
423-3726	Friction Wedge - National C-1
423-3728	Truck Bolster - National C-1
423-3729	Side Frame - National C-1
423-3730	Truck Arrgt. - National C-1
421-3731	Bolster Friction Plate - National C-1
423-3732	Journal Box Lid - Symington
423-3733	Journal Box Lid - National
423-3744	Journal Box Lid - Union Spring
423-3745	Truck Arrgt. - Buckeye
423-3746	Side Frame - Buckeye
423-3747	Truck Bolster - Buckeye
423-3748	Friction Wedge Block - Buckeye
421-3751	Bolster Wear Plate - Buckeye
422-3581	Journal Bearing Wedge
421-2887	Dust Guard
421-3167	Side Bearing - Stucki
421-2498	Center Pin
421-3736	Special Cotter
421-3723	Ride Control Coil Spring A-3

Group No. 42 - Trucks (Cont'd)

423-3724	Friction Casting A-3
421-3725	Friction Plate A-3
423-3871	Journal Box 5 x 9 (National C-1)
422-3666	Dead Lever Fulcrum Bracket
422-3872	Journal Box Hinge Lug Wear Plate & Bushing
423-3741	Ride Control Truck Assembly
422-3742	Bolster Ride Control Assembly
421-3696	Side spring - Barber

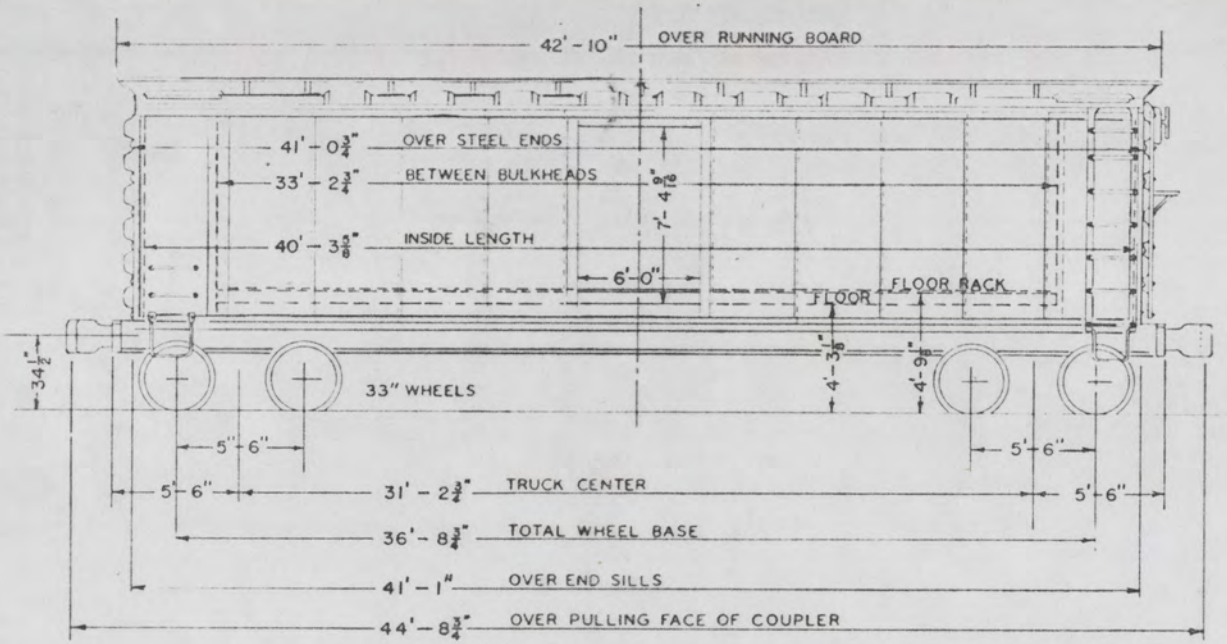
Group No. 44 - Underframe

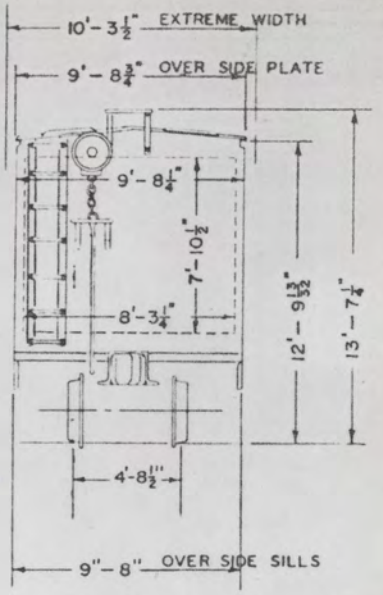
442-3812	Release Rod Guide
444-3540	Underframe Arrangement - Gunderson
444-3541	Underframe Details
443-3542	Body Bolster Arrgt. & Details
444-3543	Crossbearer Arrgt. & Details
443-3544	Crosstie Arrgt. & Details
442-3752	Slack Adjuster Brackets - Kaiser
441-3766	Drain Spout Support
441-3774	Uncoupling Rod Bracket
443-3569	Body Center Plate
444-3645	Bolster Center Filler
442-3615	Front Draft Gear Stop
441-2989	Sill Step
441-3909	End Sill Angle
441-3963	Door Track Support
443-4011	Side Sill Channel
442-4032	Slack Adjuster Bracket - Gunderson
446-4140	Underframe - Kaiser
441-4137	Channel Crosstie
444-4138	Bolster & Crossbearer
444-4139	Center Sill Assembly
446-4141	Underframe Assembly
446-4142	Underframe Sections & Details
446-4143	Underframe Sections & Details Assembly
444-4144	Underframe Stringers & Clips
444-4145	Reservoir Supports
443-4146	Diagonal Brace
444-4147	Striker Arrg't. & Details
442-4148	End Sill - L.H.
442-4149	End Sill - R.H.
124-4150	Lading Strap Anchors Application
442-4151	End Sill Angle
441-4152	Bolster Top Plate
442-4153	Brake Rod & Branch Pipe Tee Support
442-4154	Bolster Bottom Tie Plate
442-4155	Underframe Misc. Supports

KAISER

REFRIGERATOR CAR

80,000 LBS. CAPACITY





LIGHT WEIGHT OF CAR	54500 LBS
CUBIC LOADING CAPACITY	5'-11¼"
AVAILABLE LOADING HEIGHT	2022 CU. FT.
CAPACITY OF BOTH ICE TANKS	11500 LBS.
CAPACITY OF BOTH ICE TANKS - HALF STAGE	6000 LBS.
LOAD LIMIT	81500 LBS.
CAPACITY	80000 LBS.
UNDERFRAME	ALL WELDED TYPE
TRUCKS - RIDE CONTROL, STABILIZED, C-I, CUSHION RIDE	
WHEELS - ONE WEAR WROUGHT STEEL	
AXLES - JOURNALS	5" X 9"
COUPLER - TYPE E RIGID SHANK	
DRAFT GEAR - FRICTION	
AIR BRAKES - AB	
HAND BRAKES - AJAX, CHAMPION, MINER, EQUIPCO, UNIVERSAL	
SIDE DOOR - SLIDING ONE PIECE	YOUNGSTOWN STEEL DOOR CO.
AIR CIRCULATING FAN - OVERHEAD ELECT.	PRECO
INSULATION - FLOOR - STREAMLITE, NATURZONE, ISOFLEX	
INSULATION - WALLS - SPER. STREAMLITE, MIN. WOOL, ULTRALITE	
INSULATION - ROOF - ULTRALITE, SPER. STREAMLITE, COTTON FIBER	
INSULATION - FLOOR 2½" STREAMLITE 8001-9175 9276-10000	2" ISOFLEX 8001-10000
INSULATION - FLOOR 2½" NATUREZONE 9176-9275	
INSULATION - WALL 4" SUPERSTREAMLITE 9877-9999	
INSULATION - WALL 4" MINERIAL WOOL 8001-8662 8668-9875	
INSULATION - WALL 4" ULTRALITE 8663-8667	4" ULTRALITE BLANKET - 10000
INSULATION - ROOF 4" SUPERSTREAMLITE 8001-8662 8668-9175 9876-9999	
INSULATION - ROOF 4" COTTON 9176-9675	
INSULATION - ROOF 4" ULTRALITE 8663-8667	4" ULTRALITE BLANKET - 10000

REFERENCE DRAWINGS	
GENERAL DESIGN	244-2500
STEEL SHEATHING	124-2502
UNDERFRAME	444-C-10801
AIR BRAKE ARRG'T.	154-2194
ICE TANK ARRG'T.	264-2514
INSULATION - WALLS	276-2526
INSULATION - ROOF	276-2210
INSULATION - FLOOR	276-2515
LETTERING	304-C-9861
ALLOCATION OF SPECIALTIES	284-2516

PACIFIC FRUIT EXPRESS CO.

CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
S.P.E. CO. ROSEVILLE LOS ANGELES COLTON	2000	1950 — 51

CAR NUMBERS

8001-10000

CAR CLASS	DIAGRAM
R-40-26	R-38

GROUP INDEX TO DRAWINGS FOR PFE REFRIGERATOR CARS CLASS R-40-26

Group No. 02 - Heating and Ventilating

Drwg. No.	
026-2530	Fan Application - "Preco"
022-2577	Name Plate
022-2578	Fan Parts - Misc.
022-2579	Fan Parts - Rubber
023-2580	Fan Assembly
022-2581	Fan Parts - Electric
022-2582	Fan Alternater Assembly
023-2583	Fan Motor and Impeller Assembly
023-2584	Fan Panel Assembly
024-2586	Fan Duct Assembly
022-2587	Fan Guard Assembly
022-2588	Drive Support - Fan
022-2589	Fan Release Lever
023-2590	Fan Drive Wheel
021-2591	Inboard Bearing - Fan
020-2404	Spring Holder Assembly
020-2405	Drive Spring
023-2749	Guard & Junction Box Assembly

Group No. 11 - Axles & Wheels

111-C-44	Axles 5" x 9"
111-C-1527	Marking for Solid Wrought Steel Wheels
112-C-8719	One Wear Wrought Steel Wheels

Group No. 12 - Body-House

121-2175	Plywood Templates - Insulation Spacer Blocks
123-2207	Bolt Head Locks
122-2213	Corner Cap
123-2461	Floor Rack Holder Application
124-2501	Plywood Templates - Lining and Sub-lining
124-2502	Steel Sheathing and Framing
126-2503	Side Framing Details - Steel
126-2504	Body Wood Framing Arrg't.
124-2506	Side Plate and Side Sill Details
123-2507	Steel Details - Misc.
123-2508	Wood Framing Details - Lining
122-2509	Threshold Plate
124-2510	Floor Rack Arrg't.(8001 to 8587 & 9176 to 9588)
123-2517	Fixture Details - Door

Rev. June 28, 1951
Rev. Sept. 21, 1951

Group No. 12 - Body-House (Cont'd)

126-2520	Wood Framing Details - Walls
126-2522	Floor Stringer Arrg't. and Details
123-2525	Flashings
123-2527	Floor Rack Details - Wood (8001 to 8587 & 9176 to 9588)
123-2528	Floor Rack Details - Steel(8001 to 8587 & 9176 to 9588)
121-2529	Floor Rack Gate Hinge
121-2532	Door Bumper (Rubber)
123-2545	Door Stop
123-2572	Door Stop and Bracket
124-2575	Side Sheets
123-C-9208	Floor Rack Hinges
123-C-10038	Floor Rack Hinges (Alternate)
124-2691	Floor Rack Details - Steel (8588 to 9175 & 9589 to 10,000)
122-2692	Hinge Condition at Door Post(8588 to 9175 & 9589 to 10,000)
124-2693	Floor Rack Arrg't. (8588 to 9175 & 9589 to 10,000)
124-2694	Floor Rack Details - Wood (8588 to 9175 & 9589 to 10,000)

Group No. 15 - Brake Arrangement

154-2194	Air Brake Arrangement
153-2536	Hand Brake Power Unit - Equipco
153-2537	Hand Brake Power Unit - Universal
153-2538	Hand Brake Power Unit - Champion
153-2539	Hand Brake Power Unit - Miner
153-2540	Hand Brake Arrangement
153-2541	Hand Brake Power Unit - Ajax

Group No. 16 - Brake Details

162-2747	Top Rod Guide
Sk. 616	Forged Pins
163-2276	Air Brake Pipe - Details
163-2542	Brake Rod Jaws
162-2543	Brake Rod Eyes
163-2546	Brake Rods
161-C-141	Brake Lever Pins
162-C-4266	Push Rod
162-C-4440	Brake Pipe Anchor - Gustin Bacon
161-C-10880	Brake Hanger Wear Plate Cotter
162-C-5115	Bell Crank Chain
161-C-5146	Pins - Lower Unit
162-C-5183	Hand Brake Connection and Clevis
162-C-5883	Brake Shoe
162-C-5902	Connecting Chain
162-C-5934	Badge Plate
163-C-6215	Brake Balancer Application - "Wine"
163-C-6218	Brake Balancer Anchor - "Wine"
163-C-6219	Brake Balancer Connection - "Wine"
162-C-6443	Brake Hanger Bracket Wear Plate

Group No. 16 - Brake Details (Cont'd)

162-C-6444	Truck Lever Connection
162-C-6457	Floating Lever - Schaefer
162-C-6458	Cylinder Lever - Schaefer
161-C-7073	Bottom Rod Guard
162-C-8919	Brake Shoe Key
163-C-9211	Air Brake Details
162-C-9574	Rod & Lever Guides
162-C-9702	Truck Lever - Schaefer
162-C-9786	Brake Hanger Loop Type - Schaefer
163-C-10006	"AB" Brake Details
162-C-10021	Brake Pipe Anchor - "Central Railway Supply"
162-C-10296	Unit Brake Beam (Cast Steel)
162-C-10416	No. 18 Positive Brake Beam
162-C-10420	Unit Brake Beam Wear Plate
161-C-10817	Bottom Rod Guards
162-C-10818	Brake Beam Support and Sliding Chair
162-C-10421	No. 18 Unit Brake Beam (Forged)
162-2499	Truck Lever Connection (Unit)
161-C-10880	Brake Hanger Wear Plate Cotter

Group No. 18 - Doors, Gates and Fixtures

184-2511	Wood Framing Details - Door and Doorway
183-2512	Side Door Steel Details
186-2513	Door Arrangement
183-2517	Door Fixture Details
183-2518	Screw Shaft Bracket - Door
180-2524	Door Seal
183-2554	Door Hanger
181-2555	Roller Bearing Roller - Door
181-2556	Screw Shaft - Door
182-2557	Door Hanger Lock Washer
182-2558	Operating Clevis - Door
182-2559	Connection Pipe Hanger - Door
182-2560	Lever Support - Door
182-2568	Sealing Cam - Door
182-2569	Operating Crank - Door
182-2570	Fulcrum and Washer Details - Door
182-2571	Bottom Operating Crank - Door
183-2573	Operating Lever - Door
183-2574	Operating Lever - Door

Group No. 20 - Draft Gears

202-2576	Coupler Release Rigging - Rotary
201-C-4097	Draft Gear Key
202-C-4281	Draft Gear Carrier

Group No. 20 - Draft Gears (Cont'd)

201-C-4793	Draft Gear Follower Plate
203-C-5508	Draft Gear - National - Type M-17-A
203-C-5548	Draft Gear - Miner A-22-XL
203-C-5588	Coupler 6-1/4" x 8" Rigid Shank - Type "E"
203-C-5817	Coupler Centering Device Details - (Union)
202-C-7615	Coupler Yoke
203-C-8725	Draft Gear - Cardwell-Westinghouse NY-11-F
203-C-8737	Draft Gear - Peerless - Type H-1-B
202-C-9385	Draft Key Retainer - Azee
203-C-9905	Draft Gear - Hulson - 202
204-C-10009	Welded Striker Arrangement
203-C-10147	Draft Gear Arrangement
204-C-10165	Coupler Centering Device Arrangement
203-C-5551	Draft Gear - Waugh-Gould - 420

Group No. 24 - General Design

244-2500	General Design

Group No. 26 - Ice Tanks

261-2009	Special Bolts
261-2172	Floor Pan
261-2174	Ice Tank Screens
263-2422	Drain Spout Pan
263-2423	Drain Spout Application
264-2514	Ice Tank Arrangement
263-C-9707	Drain Spouts
263-C-9720	Well Trap Assembly
261-C-9728	Drain Spout Wind Guard
264-C-10034	Ice Tank Details - Steel
263-C-10035	Ice Tank Grates
263-C-10113	Bulkhead Ceiling Header
263-C-10114	Hatch Closure Operating Lever
264-C-10115	Hatch Closure Arrangement

Group No. 27 - Insulation

276-2210	Insulation Application - Roof
276-2515	Insulation Application - Floor
276-2526	Insulation Application - Walls

Group No. 28 - Miscellaneous

283-2215	Placard Boards
281-2242	Re-Ice Card Holder
282-2516	Allocation of Specialties
282-C-6010	Routing Card Board
282-C-9567	Defect Card Holder - Cheeper
282-C-10161	Ownership Stencil

Group No. 30 - Painting, Lettering & Numbering

303 - 2269	Stenciling - Roof
303-C-741	3" Figures
303-C-951	1" x 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3919	7" Letters
304-C-9861	Lettering on Refrigerator Cars
303-C-10396	Union Pacific Medallion
303-C-10397	Stenciling for U.P. Medallion

Group No. 32 - Roof

Sk. 1168	Hatch Plug Hinge & Butt
324-2219	Hatch Plug Arrg't. & Wood Details
323-2220	Wood Framing Details
323-2228	Hatch Plug Steel Cover & Details
322-2533	Plywood Templates - Ceiling
323-C-7596	Hatch Closure Gasket
323-C-8198	Hatch Closure Cover Bracket
322-C-8210	Operating Lever Fulcrum & Bolt
322-C-8211	Hatch Closure Cover Lifter
321-C-8333	Hatch Plug Hinge
321-C-8334	Hatch Plug Hinge Butt
323-C-9356	Vent Lever Fulcrum Securement
322-C-9705	Hatch Closure Operating Lever

Group No. 32 - Roof (Cont'd)

322-C-9706	Seal Pin
263-C-10114	Hatch Closure Operating Lever
264-C-10115	Hatch Closure Arrangement
343-C-10117	Running Board Saddle Details
324-C-10118	Diagonal Panel Riveted Roof - Morton Run. Bd.
324-C-10119	Diagonal Panel Riveted Roof
324-C-10120	Hatch Frame & Carline Assembly
324-C-10121	Diagonal Panel Riveted Roof - Details

Group No. 34 - Safety Appliances

261-2009	Special Bolts
341-2019	G.T. Washer & Special Bolts
341-2521	Sill Step at Door
344-2523	Side & End Ladder & Brackets
373-2235	Brackets at Steel End
341-2544	Brake Step - Apex
344-2547	Running Board - Kerrigan
341-2548	Brake Step - Kerrigan
343-2549	Running Board - Transco
342-2550	Brake Step - Transco
343-2551	Running Board - End Section - Transco
343-2552	Running Board - Inter. Section - Transco
344-C-5188	Handholds
343-C-9311	Special Washer for Safety Appliances
343-C-9648	Running Board - Apex
342-C-9649	Brake Step - Gypsum
343-C-9650	Running Board - Gypsum
344-C-9693	Running Board - Morton
342-C-9694	Brake Step - Morton
343-C-10117	Running Board Saddle Details

Group No. 36 - Springs

362-2415	Truck Springs 3-11/16"
361-C-9744	Ride Control Spring A-3
361-C-9976	Side Springs - Barber
362-C-10776	Wedge Spring
360-C-10637	Spring Friction Wedge

Group No. 37 - Steel Ends

374-2232	Steel End Reinforcement Beam
373-2235	Brackets at Steel Ends
374-2534	Steel End Arrangement
374-2535	Steel End - Details

Group No. 42 - Trucks

423-2247	Packing Retainer - Holdrite
423-2553	Packing Retainer - Modern
421-C-66	Journal Bearing
422-C-2566	Journal Bearing Wedge
422-C-4264	Center Pin
421-C-4715	Dust Guard
422-C-7323	Cotter Pin
421-C-7516	Truck Side Bearing
423-C-9070	Method of Assembling A-3 Truck
422-C-9407	Application of Friction Plates to Side Frames A-3
422-C-9408	Method of Assembling Ride Control Elements A-3
423-C-9409	Friction Casting A-3
424-C-9960	Truck Side Frame - Symington (A-3)
423-C-9875	Journal Box Lid - Symington
422-C-9977	Application of Wear Plates & Details
422-C-9978	Friction Casting - Barber
423-C-10943	Truck Bolster - Scullin (A-3)
423-C-10771	Truck Arrangement - National C-1
424-C-10772	Truck Side Frame - National C-1
422-C-10773	Method of Assembly - National C-1
424-C-10774	Truck Bolster - National C-1
422-C-10775	Friction Wedge - National (Type C-1)
424-C-10826	Truck Side Frame - National (Barber)
424-C-10827	Truck Bolster - National (Barber)
423-C-10828	Truck Bolster A.S.F. (A-3)
423-C-10829	Truck Side Frame A.S.F. (A-3)
423-C-10830	Truck Arrangement A-3
424-C-10832	Truck Bolster - Scullin (Barber)
424-C-10833	Truck Side Frame - Scullin (Barber)
424-C-10834	Truck Arrangement - Barber
424-C-10851	Truck Bolster - Symington (A-3)
424-C-10852	Truck Side Frame - Buckeye (Barber)
424-C-10853	Truck Bolster - Buckeye (Barber)
423-C-10854	Truck Arrangement - Buckeye
424-C-10855	Truck Side Frame - Buckeye
424-C-10856	Truck Bolster - Buckeye
420-C-10639	Column Wear Plate
422-C-10871	Friction Wedge Block
424-C-10635	Method of Assembly - Buckeye
424-2677	Method of Shimming Buckeye CR Trucks

Group No. 44 - Underframe

154-2194	Air Brake Arrangement
444-2519	Welding Diagram
444-2531	Underframe Details
444-C-6304	Striking Plate Details
443-C-6316	Front Draft Gear Stop
442-C-6361	Body Center Plate
444-C-9760	Bolster Center Filler - Die Pressed Hot
443-C-9776	Center Sill - Details
443-C-9774	Body Side Bearing & Details

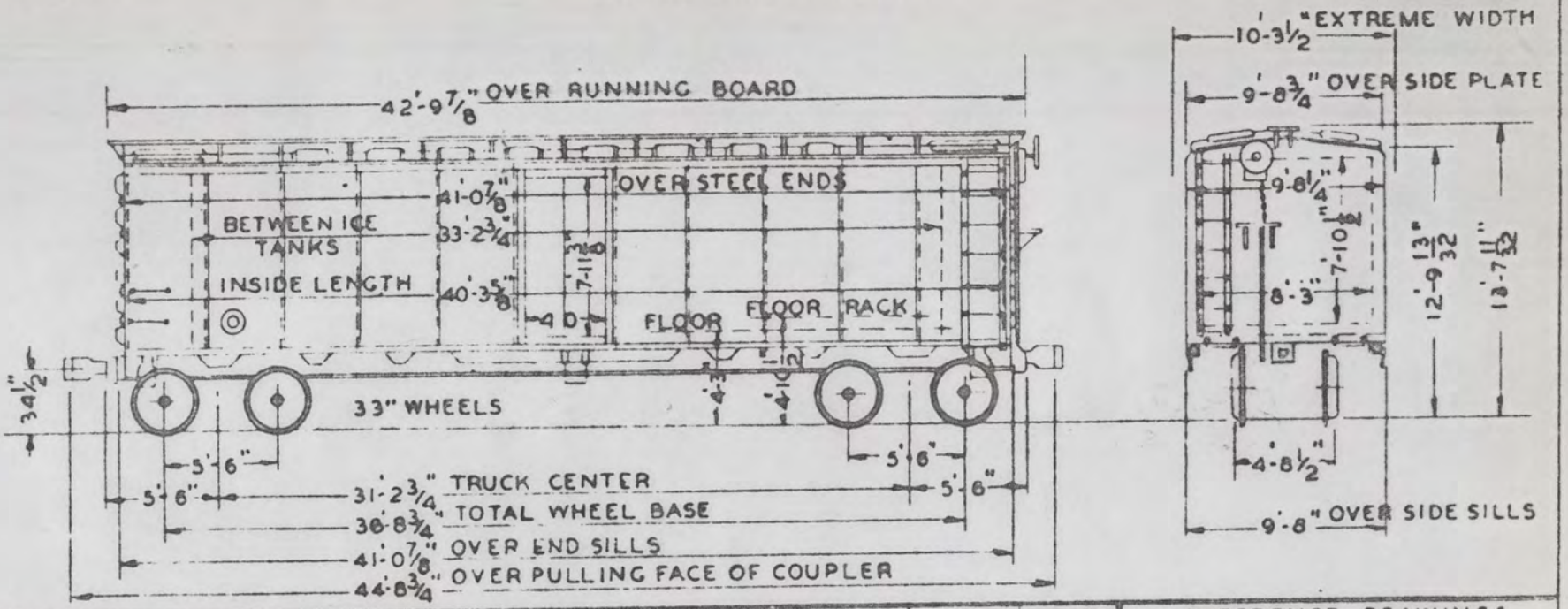
Group No. 44 - Underframe (Cont'd)

444-C-9815	Crossbearer Arrangement & Details
444-C-9993	Bolster Center Filler - Hot Die Pressed (Buckeye)
443-C-10003	Body Bolster Arrg't. & Details
444-C-10016	Body Center Plate (Alternate)
444-C-10801	Underframe Arrangement
443-C-10822	Crosstie Arrg't. & Details
444-C-10008	Crossbearer Arrg't & Details (alternate)

CLASS
R-40-25

REFRIGERATOR CAR
80 000 LBS. CAPACITY

CAR NO'S.
2001-5000



LENGTH INSIDE OF LINING	40'-3 5/8"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-10 1/2"
CU. CAP. BETWEEN ICE TANKS	1980 CU. FT.
CAPACITY OF BOTH TANKS	11500 LBS.
WT. OF EACH AM. STL. FDY. A-3 TRUCK WITH STEEL WHEELS	69 00 LBS.
LT WT OF CAR WITH ONE WEAR WROT WHLS 53400-WITH C.I WHLS 54300	
UNDERFRAME ALL WELDED TYPE	
SUPERSTRUCTURE	ALL STEEL

CAR BUILDERS	NO. CARS BUILT	YEAR BUILT
S. P. E. CO.	3000	1949-50

REFERENCE DRAWINGS	
GENERAL DESIGN	244-C-10000
BRAKE ARRGT.	154-2194
TRUCK ARRGT. A-3	423-C-9791
UNDERFRAME	444-C-10001
ROOF ARRGT.	324-C-10118
STEEL END ARRGT.	374-C-10122
SIDE FRAMING DET. STL.	126-2188
ICE TANK ARRGT.	264-C-10116
ALLOCATION OF SPECLTS	283-C-.0162

AXLES-JOURNALS	5"x9"
AIR BRAKES	WESTINGHOUSE-NEW YORK
BRAKE BEAMS	CHGO. RY. EQ. CO.
" " SUPPORTS	" " " "
" HANGERS & WEAR PLATES	SCHAEFER
" LEVER CONNECTIONS	"
" PIPE ANCHOR	GUSTIN BACON
" ROD JAWS	SCHAEFER
" BALANCER	WINE
" STEP- APEX, MORTON & U.S GYPSUM	TYPE-E
COUPLERS	
" CENTERING DEVICE-STD. RY. EQ. CO.	
" RELEASE RIGGING " " " "	
" YOKES	CAST STEEL
DRAFT GEARS CARD WEST'H'SE	NY-11-F
" " NATIONAL	M-17-A
" " MINER	A-22-XL
" " PEERLESS	H-1-82
" " EDGEWATER	B-32-KA
DEFFECT CARD HOLDER	WESTERN

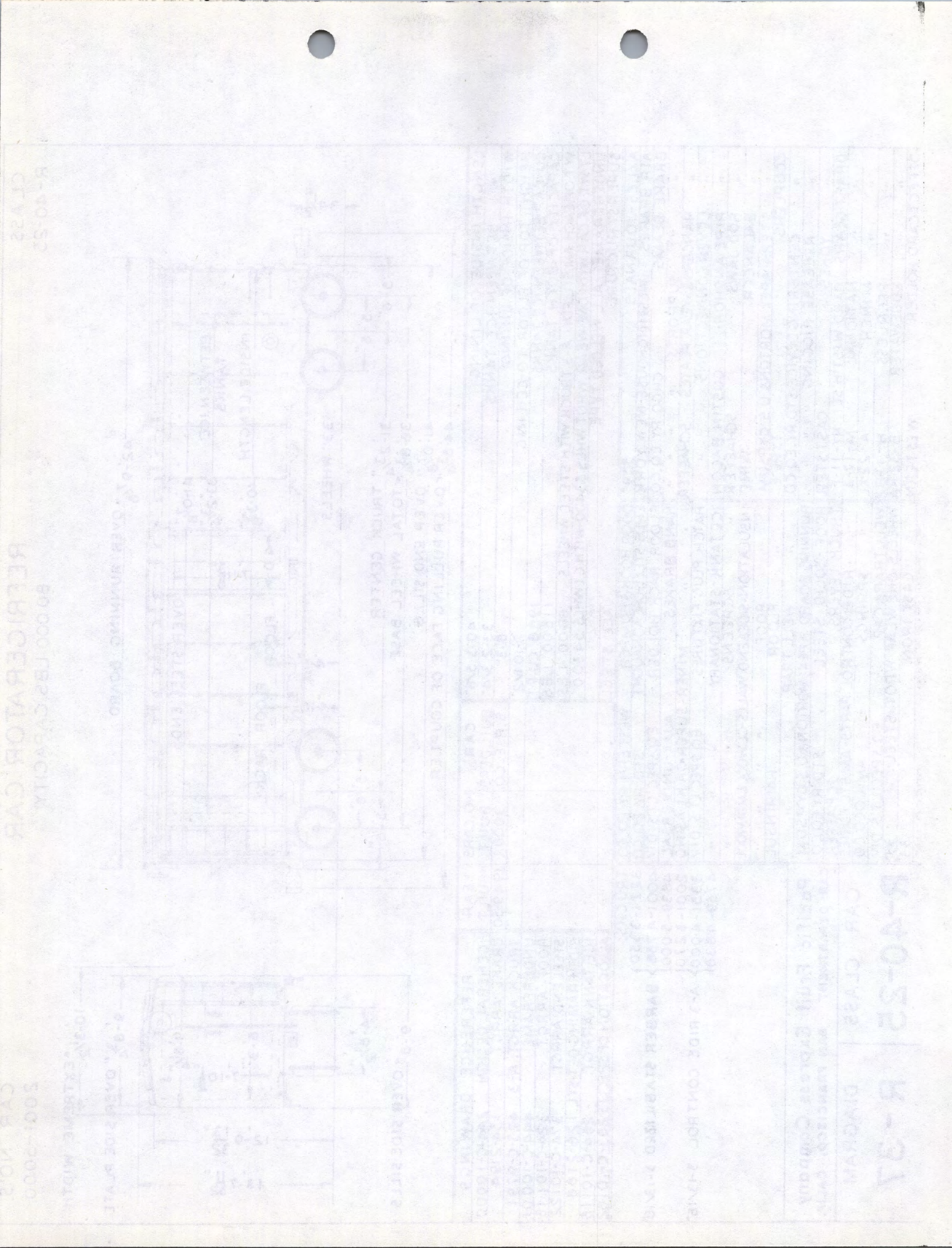
DOOR HOOK & BUMPER	WESTERN RY. EQ. CO.
ENDS-STEEL-DREADNAUGHT	STD. RY. EQ. CO.
FLOOR RACK HOLDER	EQ. SPEC'LT'S. DIV.
HAND BRAKES	AJAX-UNIVERSAL
" "	MINER-SUPERIOR K LASING
HATCH PLUG FIXTURES	EQ. SPEC'LT'S. DIV.
ICE TANK-STATIONARY	" " "
" " SCREENS	" " "
INSULATION-SIDE & END WALLS-CL WOOL CL MIN. WOOL	
" ROOF	" " " "
" FLOOR	HAIR INSUL
" WELL TRAP	"
RUNNING BOARD-APEX, MORTON & U.S GYPSUM	
ROOF-SOLID STEEL	STD. RY. EQ. CO.
TRUCK LEVERS	SCHAEFER
" RIDE CONTROL PARTS-AM. STL. FDRIES.	
" SPRINGS	AM. LOCO. CO.
WELL TRAP & CAP	EQ. SPEC'LT'S. DIV.
WHEELS-ONE WEAR WROT STEEL	33"
CAST IRON	33

TRUCKS:

3271-3350	BARBER STABILIZED 3-13/16"
4001-4758	
4839-5000	
2001-3270	A-3 RIDE CONTROL 3-13/16"
3351-4000	
4759-4838	

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-25	R-37



GROUP INDEX TO DRAWINGS FOR P.F.E. REFRIGERATOR CARS CLASS R-40-25

GROUP 02 - HEATING & VENTILATING

Drwg. No.	
022 - 1030	Drive Belt (64-B)
020-C-9312	Inboard Drive Support Bushing
020-C-9314	Clip - Spring
021-C-9315	Sheave Cover Assembly
021-C-9316	Lug - Drive Release
021-C-9317	Drive Support Pin
022-C-9318	Support Tube Assembly
021-C-9319	Air Seal Assembly
021-C-9320	Belt Guide Assembly
021-C-9321	Motor Hanger Assembly
021-2126	Blower Sheave Assembly
022-C-9323	Housing Assembly - Belt
022-C-9324	Drive Spring
021-C-9325	Release Lever Assembly
023-2590	Wheel Drive Assembly
022-C-9327	Belt Box Assembly
021-C-9328	Drive Assembly
026-C-10142	Fan Installation FK-6
024-C-10143	Blower Assembly

GROUP 11 - AXLES & WHEELS

111-C-44	Axles 5" x 9"
111-C-1527	Marking for Solid Wrought Steel Wheels
111-C-7416	Marking for Single Plate Bracketed Wheels
113-C-8041	Cast Iron Wheels
112-C-8719	One Wear Wrought Steel Wheels

GROUP 12 - BODY - HOUSE

124 - 2173	Plywood Templates - Lining & Sub-lining
121 - 2175	Plywood Templates - Insulation Spacer Blocks
126 - 2187	Steel Sheathing & Framing
126 - 2188	Side Framing Details - Steel
122 - 2189	Door Hood & Protection Plate

GROUP 12 - BODY - HOUSE (Cont'd)

Drwg. No.	
126 - 2190	Body Wood Framing Arrg't.
124 - 2191	Floor Rack Extension
126 - 2192	Floor Stringer Arrg't. & Details
126 - 2193	Wood Framing Details - Walls
124 - 2195	ZU-Special Side Plate
121 - 2196	Floor Rack Extension Hinge & Butt
123 - 2207	Bolt Head Locks
122 - 2209	Steel Details - Misc.
124 - 2211	Flashings
122 - 2213	Corner Cap
123 - 2237	Wood Framing Details - Lining
122-C-5725	Threshold Plate
123-C-9208	Floor Rack Hinges
123-C-9712	Floor Rack Holder Application
122-C-9724	Floor Rack Side Wall Hook
121-C-9725	Floor Rack Link Guide
121-C-9726	Floor Rack Link
121-C-9727	Floor Rack Bearing Plate
126-C-9809	Floor Rack Arrg't & Details
125-C-10132	Floor Rack Extension Holder (Azee)
123-C-10038	Floor Rack Hinges (Alternate)

GROUP 15 - BRAKE ARRANGEMENT

154 - 2194	Brake Arrangement
153-C-10164	Hand Brake Arrangement - Ajax
153-C-10157	Hand Brake Arrangement - Klasing
153-C-10153	Hand Brake Arrangement - Miner
153-C-10163	Hand Brake Arrangement - Superior
153-C-10129	Hand Brake Arrangement - Universal XL

GROUP 16 - BRAKE DETAILS

162-2747	Top Rod Guide
Sk. 616	Forged Pins
161-C-141	Brake Lever Pins
162-C-4266	Push Rod
162-C-4440	Brake Pipe Anchor - Gustin Bacon
162-C-4904	Brake Beam Hanger Cotter
162-C-5115	Bell Crank Chain
161-C-5146	Pins - Lower Unit
162-C-10416	No. 18 Positive Brake Beam

GROUP 16 - BRAKE DETAILS(Cont'd)

Drwg. No.	
162-C-5160	Truck & Cylinder Lever Connection
162-C-5161	Cylinder & Floating Lever Connection
162-C-5183	Hand Brake Connection & Clevis
162-C-5883	Brake Shoe
162-C-5902	Connecting Chain
162-C-5904	Brake Rod Jaw - Schaefer
163-C-6215	Brake Balancer - Wine
163-C-6218	Brake Balancer Anchor - Wine
163-C-6219	Brake Balancer Connection - Wine
162-C-6443	Brake Hanger Bracket Wear Plate
162-C-6444	Truck Lever Connection
162-C-6457	Floating Lever
162-C-6458	Cylinder Lever - Schaefer
162-C-6697	Brake Rod Jaw - Schaefer
161-C-7073	Bottom Rod Guard
162-C-8919	Brake Shoe Key
162-C-9574	Rod & Lever Guides
162-C-9702	Truck Lever - Schaefer
163-C-9211	Air Brake Details
162-C-9786	Brake Hanger Loop Type - Schaefer
162-C-9866	Brake Beam #3 - Positive - Creco
163-C-10006	"AB" Brake Details
162-C-10021	Brake Pipe Anchor - Central Railway Supply
162-C-10028	Brake Beam #3 - Positive - Chicago
162-C-10037	Brake Beam Support & Sliding Chair
162-C-5934	Badge Plate
162-C-10160	Brake Pipe Anchor - Real
162-C-5306	Housing Support & Brake Rod
163-2276	Air Brake Pipe - Details
162-2667	Brake Beam Support Chairs - Creco

GROUP 18 - DOORS, GATES & FIXTURES

Sk. 1243	Spring Board
Sk. 1440	"Flexseal" Door Gasket Application
184 - 2198	Wood Framing Details - Door & Doorway
184 - 2199	Side Door Steel Details
186 - 2203	Door Arrangement
183 - 2205	Side Door Fastener Details - Reclaimed
182-C-5863	Side Door Hinge
183-C-5896	Door Hook & Bumper - Slam
183-C-5893	Side Door Fastener Details - Miner
182-C-9355	Door Hook Securement
183-C-10141	Side Door Fastener - Miner
183-C-10167	Side Door Fastener Details - Universal
183-C-10166	Side Door Fastener - Universal

GROUP 20 - DRAFT GEARS

Drwg. No.	
201-C-4097	Draft Gear Key
202-C-4281	Draft Gear Carrier
201-C-4793	Draft Gear Follower Plate
203-C-5508	Draft Gear - National - Type M 17-A
203-C-5548	Draft Gear - Miner A-22-XL
203-C-5588	Coupler 6-1/4" x 8" Rigid Shank - Type "E"
203-C-5817	Coupler Centering Device Details - (Union)
203-C-5882	Draft Gear - Peerless - Type H-1-B2
203-C-6272	Draft Gear - Edgewater - B-32-KA
202-C-7615	Coupler Yoke F-12-18-43X
203-C-8725	Draft Gear - Cardwell - Westinghouse
202-C-9385	Draft Gear Retainer - Azee
204-C-10009	Welded Striker Arrangement
202-C-10135	Coupler Release Rigging - Rotary
203-C-10147	Draft Gear Arrangement
204-C-10165	Coupler Centering Device Arrangement

GROUP 24 - GENERAL DESIGN

244-C-10000	General Design

GROUP 26 - ICE TANKS

261 - 2009	Special Bolts
261 - 2172	Floor Pan
262 - 2174	Ice Tank Screens
263-C-9707	Drain Spouts
263-C-9720	Well Trap Assembly
261-C-9728	Drain Spout Wind Guard
263 - 2422	Drain Spout Pan
264-C-10034	Ice Tank Details - Steel
263-C-10035	Ice Tank Grates
263-C-10036	Drain Spout Application
263-C-10113	Bulkhead Ceiling Header
264-C-10116	Ice Tank Arrangement
263-C-10114	Hatch Closure Operating Lever
264-C-10115	Hatch Closure Arrangement

GROUP 27 - INSULATION

Drwg. No.	
276 - 2170	Insulation Application - Walls
276 - 2210	Insulation Application - Roof
276 - 2212	Insulation Application - Floor

GROUP 28 - MISCELLANEOUS

283 - 2215	Placard Boards
281 - 2242	Re-Ice Card Holder
282-C-6010	Routing Card Board
282-C-9567	Defect Card Holder - Cheeper
282-C-10161	Ownership Stencil
282-C-10162	Allocation of Specialties

GROUP 30 - PAINTING, LETTERING & NUMBERING

303-C-741	3" Figures
303-C-951	1" & 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-10396	Union Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3919	7" Letters
304-C-9861	Lettering on Refrigerator Cars.
303-C-10397	Stenciling for U.P. Medallion

GROUP 32 - ROOF

Drwg. No.	
Sk. 1168	Hatch Plug Hinge & Butt
321 - 2171	Plywood Templates - Ceiling
324 - 2219	Hatch Plug Arrg't. & Wood Details
323 - 2220	Wood Framing Details - Ceiling
323-C-7596	Hatch Closure Gasket
322-C-8210	Operating Lever Fulcrum & Bolt
322-C-8211	Hatch Closure Cover Lifter
323-C-8198	Hatch Closure Cover Bracket
322-C-9705	Hatch Cover Bracket
322-C-9706	Seal Pin
263-C-10114	Hatch Closure Operating Lever
264-C-10115	Hatch Closure Arrangement
323-C-9356	Vent Lever Fulcrum Securement
343-C-10117	Running Board Saddle Details
324-C-10118	Diagonal Panel Riveted Roof - Morton Running Bd.
324-C-10119	Diagonal Panel Riveted Roof - Apex & Gypsum Run.Bd.
324-C-10120	Hatch Frame & Carline Assembly
324-C-10121	Diagonal Panel Riveted Roof - Details
323 - 2228	Hatch Plug Steel Cover & Details

GROUP 34 - SAFETY APPLIANCES

261 - 2009	Special Bolts
341 - 2019	G.T. Washer & Special Bolts
341 - 2146	Brake Step - Apex
344 - 2230	Side & End Ladder & Brackets
373 - 2235	Brackets at Steel End
344-C-5188	Handholds
343-C-9311	Special Washer for Safety Appliances
343-C-9648	Running Board - Apex
342-C-9649	Brake Step - Gypsum
343-C-9650	Running Board - Gypsum
344-C-9693	Running Board - Morton
342-C-9694	Brake Step - Morton
341-C-9849	Sill Step at Door
343-C-10117	Running Board Saddle Details

GROUP 36 - SPRINGS

361-C-9744	Ride Control Coil Spring A - 3
361-C-9787	Outer Coil Spring
361-C-9788	Inner Coil Spring
361-C-9976	Side Springs - Barber

GROUP 37 - STEEL ENDS

Drwg. No.	
374-2232	Steel End Reinforcement Beam
373-2235	Brackets at Steel Ends
374-C-10122	Steel End Arrangement
374-C-10123	Steel End - Details

GROUP 42 - TRUCKS

423-2247	Packing Retainer - Holdrite
421-C-66	Journal Bearing
422-C-2566	Journal Bearing Wedge
422-C-4264	Center Pin
421-C-4715	Dust Guard
422-C-7323	Cotter Pin
421-C-7516	Truck Side Bearing
423-C-9070	Method of Assembling A-3 Truck
422-C-9407	Application of Friction Plates to Side Frames A-3
422-C-9408	Method of Assembling Ride Control Elements A-3
423-C-9409	Friction Casting A-3
422-C-9473	Journal Box Lid - Flexo No. 2
423-C-9789	Truck Side Frame - Am. Steel & Columbia
423-C-9790	Truck Bolster - Am. Steel & Columbia
423-C-9791	Truck Arrangement A-3
423-C-9875	Journal Box Lid - Symington
424-C-9960	Truck Side Frame - Sym. Gould
424-C-9963	Truck Side Frame - Barber (Columbia)
424-C-9964	Truck Bolster - Barber (Columbia)
423-C-9974	Truck Side Frame A-3 (Scullin)
422-C-9977	Application of Wear Plate & Details
422-C-9978	Friction Casting - Barber
425-C-9979	Truck Arrangement - Barber
422-C-9982	Side Frame Opening - Barber
422-C-9983	Bolster End Condition - Barber
423-C-10139	Truck Side Frame - Barber (Scullin)
423-C-10140	Truck Bolster - Barber (Scullin)
423-C-10943	Truck Bolster - A-3 (Scullin)

GROUP 44 - UNDERFRAME

154-2194	Brake Arrangement
444-C-6304	Striking Plate Details
443-C-6316	Front Draft Gear Stop
442-C-6361	Body Center Plate
444-C-9760	Bolster Center Filler-Die Pressed Hot
443-C-9776	Center Sill - Details

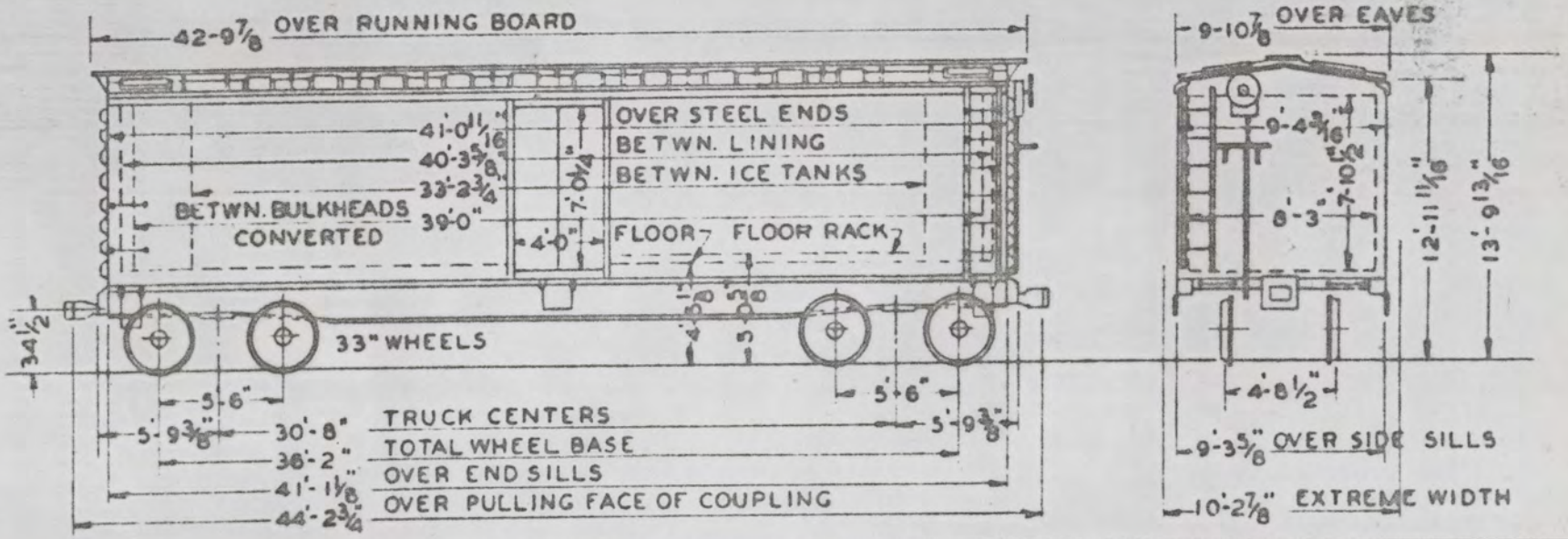
GROUP 44 - UNDERFRAME (Continued)

Drwg. No.	
443-C-9774	Body Side Bearing & Details
444-C-9815	Crossbearer Arrangement & Details (not used)
444-C-9993	Bolster Center Filler - Hot Die Pressed (Buckeye)
444-C-10001	Underframe Arrangement
443-C-10003	Body Bolster Arrg't & Details
443-C-10004	Crosstie Arrg't & Details
444-C-10005	Underframe Details
444-C-10007	Welding Diagram
444-C-10008	Crossbearer Arrg't & Details (Alternate)
443-C-10016	Body Center Plate (Alternate)

CLASS
R-30-24
R-40-24

REFRIGERATOR CAR
70000 LBS CAPACITY

CAR NO'S.
65921-68532



LENGTH INSIDE OF LINING	40'-3 5/8"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-10 1/2"
CU.CAP. BETWEEN ICE TANKS ABOVE FLOOR RACK	1988 CU.FT.
CAP. OF BOTH ICE TANKS	11500-LBS.
WT. OF EACH TRUCK	7200-LBS.
LT.WT. OF CAR COMPLETE	50800 LBS
UNDERFRAME	R.R.DESIGN
SUPERSTRUCTURE	WOOD SHEATHING STEEL POST & BRACES

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P.F.E.CO.	2610	1948

REFERENCE DRAWINGS	
GENERAL DESIGN	243-2000
INSUL. APPL.	273-2001
ICE TANK	262-2005
UNDERFRAME & AB BRKS.	443-2050
STEEL FRAMING	123-2002
AIR CIRC. FAN APPL.	022-2125 & 2180
STEEL ENDS	374-2178
STEEL ROOF	322-2027 & 322-2176
PAINTING LETTERING & NO.	302-2100

AXLE - JOURNALS	5" x 9"
AIRBRAKE	A B NEW YORK
BRAKE BEAMS	CRECO
" " SUPP & SLI CHAIRS	"
" LEVER CONNECTIONS	SCHAEFER
COUPLERS	TYPE E
" YOKES	WROT IRON & CAST STEEL
" RELEASE RIGGING	ROTARY
" CENTERING DEVICE	U.M.P.
DRAFT GEARS	FRICTION
DOOR FASTENERS	MINER
ENDS	DREADNAUGHT - STEEL
HATCH PLUG - INTEGRAL	HAIRFELT
INSULATION - ROOF SIDES & ENDS	VARIOUS
" FLOOR	"
ROOF	SOLID STEEL
WHEELS	CAST IRON - 33"

HAND BRAKE	POWER
ICE TANK	CONVERTIBLE
METAL RUNNING BOARD	VARIOUS
AIR CIRCULATING FANS	PRECO
TRUCKS:	
65921-66019	BARBER STABILIZED-2-1/2"
66030-66542	BARBER STABILIZED-2-1/2"
66563-67420	BARBER STABILIZED-2-1/2"
66020-66029	SCULLIN L-V-3-13/16
66543-66562	BARBER STABILIZED - 3-13/16
67421-67936	A-3 RIDE CONTROL - 3-13/16
68001-68314	A-3 RIDE CONTROL - 3-13/16
68351-68532	A-3 RIDE CONTROL - 3-13/16
67937-68000	A-3 RIDE CONTROL - 3-13/16 WITH "UNIT" BEAMS
68315-68350	A-3 RIDE CONTROL - 3-13/16 WITH "UNIT" BEAMS

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-24	R-36

GROUP INDEX OF DRAWINGS

FOR

PACIFIC FRUIT EXPRESS COMPANY

REBUILT CARS CLASS R-30-24 & R-40-24

SERIES 65921 to 67420

GROUP	PAGE
02-Heating & Ventilating	1
11-Axles & Wheels	1
12-Body-House	1 & 2
15-Brake Arrangement	2
16-Brake Details	2
18-Doors, Gates & Fixtures	2
20-Draft Gears	2 & 3
24-General Design	3
26-Ice Tank	3
27-Insulation	4
28-Miscellaneous	4
30-Painting,Lettering & No.	4
32-Roof	4
34-Safety Appliances	4 & 5
36-Springs	5
37-Steel Ends	5
42-Trucks	5
44-Underframe	6

INDEX TO DRAWINGS

R-30-24
R-40-24
(First Quota)

Group #02-- Heating & Ventilating

022-1030	70B Drive Belt
022-2124	Blower Assembly
022-2125	Fan Installation (Preco FG-41)
021-2126	Blower Sheave Assembly
021-2127	Blower Sheave Cover Assembly
021-2128	Box Assembly - Belt
021-2129	Drive Assembly
021-2130	Lever Assembly - Drive Release
021-2131	Tube Assembly - Drive Support
021-2132	Drive Support Bushing - Inboard
021-2133	Clip - Spring
021-2134	Housing Assembly - Belt
Sk. 1262	Drive Support Pin
Sk. 1263	Bracket Assembly - Precool Motor
Sk. 1268	Air Seal
Sk. 1269	Belt Guide Assembly
Sk. 1272	Spring - Drive
Sk. 1273	Lug - Drive Release

Group #11 - Axles & Wheels

111-C-44	Axles - 5" x 9"
113-C-8041	Cast Iron Wheels
112-C-8719	One Wear Wrought Steel Wheels

Group #12 - Body House

123-2002	Side Steel Frame
122-2006	Plywood Templates - Lining & Sub-Lining
122-2007	Plywood Templates - Ins. Spacer Blocks
322-2011	Plywood Templates - Ceiling
261-2012	Plywood Templates - Bulkhead
121-2014	Shoulder Bolts
121-2022	Threshold Plate
123-2026	Wood Framing Diagram
122-2034	Flashings
322-2046	Plywood Templates - Harborite (In Roof)
123-2053	End Wall Sections
122-2058	Plywood Templates - Sheathing

Group #12 - Body House (Cont'd)

123-2084	Wood Framing Details - Floor
122-2097	Wood Framing Details - End
123-2098	Wood Framing Details - Side
122-2099	Wood Framing Details - Ceiling
122-2101	Herringbone Floor Rack
121-2102	Door Hood & Protection Plate
322-2103	Ceiling Construction at Hatchway
122-2135	Sheathing & Sub-Floor Angles
121-2136	Door Header Tie Strap
121-2137	Floor Rack Extension
Sk. 789	Floor Rack Holder
Sk. 1198	Link Fastener
Sk. 1226	Hinge - Floor Rack Extension
Sk. 1243	Spring Boards
123-2207	Bolt Head Locks.
123-C-9208	Floor Rack Hinge

Group #15 - Brake Arrangement

152-2017	Hand Brake - Arrangement
443-2050	Underframe & A.B. Brake Arrangement

Group #16 - Brake Details

443-2004	Underframe Details
342-2093	Brackets at Steel End
161-C-605	Cylinder & Floating Lever Connection
161-C-606	Top Lever Connection
161-C-4509	Brake Hanger (Loop Type)
161-C-4520	Hand Brake Connecting Chain
162-C-4904	Brake Beam Hanger Cotter
161-C-5115	Bell Crank Chain
163-C-5359	Cylinder & Floating Lever
162-C-5883	Brake Shoe (Duplane)
162-C-6443	Brake Hanger Bracket Wear Plate
161-C-7073	Bottom Rod Guard
162-C-8919	Brake Shoe Key
162-C-10172	Adjustable Type Chair (Creco) 4 point Support
162-C-10416	No. 18 Positive Brake Beam
162 -2667	Brake Beam Support Chairs - Creco

Group No. 18 - Doors, Gates & Fixtures

183-2105	Side Door
C-713	Side Door Hinge
183-C-4869	Side Door Fastener Details

Group No. 20 - Draft Gear

204-C-4097	Draft Gear Key
202-C-7615	Coupler Yoke
201-C-4314	Draft Key Retainer
201-2144	Draft Key Retainer Lock
C-4476	Draft Gear Carrier (R-40-24)
C-3496	Draft Gear Carrier (R-30-24)
203-C-5588	Coupler Type "E"
203-C-5817	Coupler Centering Device - Details
202-C-7615	Coupler Yoke
202-2015	Striking Casting & Front Draft Gear Stop
202-2023	Striking Casting Application
201-2043	Drawbar Stop Extension
201-2089	Uncoupling Device
202-2090	Union Centering Device - Application
202-C-9385	Draft Key Retainer
201-2144	Draft Key Retainer Lock

Group No. 24 - General Design

243-2000	General Design

Group No. 26 - Ice Tank

261-2003	Ventilator Assembly - Equipco
262-2005	Equipco Convertible Bulkhead
261-2009	Special Bolts
261-2010	Ice Tank Screens
261-2012	Plywood Templates - Bulkhead

Group #26 - Ice Tank (Cont'd)

261-2016	Bulkhead Ceiling Beam
261-2021	Floor Pan
122-2034	Flashings
262-2055	Drain Spout Application
262-2056	Drain Spout & Bottom Pan
262-2106	Ventilator Details
261-2107	Header Lock - Center (Alternate)
261-2108	Header Lock - Side & Inter. (Alternate)
262-2120	Grate Rest & Ventilator Drip Trough
262-2123	Hinges & Locks
261-2138	Well Trap Assembly
Sk.-1076	Trolley Assembly
Sk. 1077	Lift Lever Fulcrum
Sk. 1080	Bottom Rail Hook
Sk. 1081	Sections etc.
Sk. 1084	Ice Grate
Sk. 1118	Stage Ice Grates
Sk. 1121	Floor Supports etc.
Sk. 1123	Trolley Track
Sk. 1124	Lift Lever
Sk. 1208	Bunker Floor Rack & Slat
Sk. 1288	Bulkhead Header Lock - Inter. & Side
Sk. 1289	Bulkhead Header Lock - Center
264-C-8978	Bulkhead Section and Post
264-C-8979	Grates (Alternate)
262-C-8997	Bulkhead Section with Toe Holes
263-C-9700	Bulkhead Grate - Full Tank - Left Side
263-C-9709	Bulkhead Grate - Full Tank - Center
263-C-9714	Bulkhead Grate - Full Tank - Right Side
262-C-9719	Header Lock - Side & Inter. (Alternate)
262-C-9721	Header Lock - Center (Alternate)

Group #27 - Insulation

273-2001	Insulation Application

Group #28 - Miscellaneous

283-C-9015	Placard Board
342-2093	Brackets at Steel End
282-C-6150	Defect Card Holder
123-2207	Bolt Head Locks

Group #30 - Painting, Lettering & Numbering

303-C-741	3" Figures
303-C-951	1" & 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-10396	Union Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3919	7" Letters
302-2100	Lettering on Refrigerator Cars
303-C-10397	Stenciling for U.P. Medallion

Group #32 - Roof

322-2011	Plywood Templates - Ceiling
322-2027	Solid Steel Roof - Application (with Morton Run.Bd.)
322-2028	Solid Steel Roof - Application (with Gypsum Run.Bd.)
322-2029	Solid Steel Roof - Details (with Morton Run.Bd.)
322-2030	Solid Steel Roof - Details (with Gypsum Run.Bd.)
322-2031	Roof Support - Details
322-2032	Hatch Carline & Frame Assembly
322-2046	Plywood Templates - "Harborite" (in roof)
322-2099	Wood Framing Details - Ceiling
322-2103	Ceiling Construction at Hatchway
322-2104	Hatch Plug Arrangement & Wood Details
322-2139	Hatch Closure Arrangement
323-2228	Hatch Plug Cover Plate
Sk. 751	Hatch Details - Forged
Sk. 769	Hatch Hinges
Sk. 771	Hatch Cover Lifter
Sk. 774	Operating Lever Fulcrum
Sk. 775	Hatch Closure Gasket
Sk. 778	Operating Lever
Sk. 780	Hatch Cover Bracket & Seal Pin
Sk.1155	Hatch Hinges (Alternate)

Group #34 - Safety Appliances

341-2019	G-T Washer & Special Bolts
342-2035	Handholds
342-2054	Side & End Ladder & Brackets
342-2080	Metal Running Board - Gypsum
341-2086	Metal Brake Step - "
342-2091	Metal Running Board - Morton
341-2092	Metal Brake Step - "
342-2093	Brackets at Steel End

Group #36 - Springs

362-C-6280	Spring Plate - (Univ. UXS-4)
361-C-9074	Outer Coil Spring
361-C-9075	Inner Coil Spring
361-C-9368	Side Spring - Type S-2

Group #37 - Steel End

371-2020	Corner Post
374-2024	Steel End - Application
374-2025	Steel End - Details
123-2053	End Wall Sections
342-2093	Brackets at Steel End
372-2094	Steel End Filler Clips
372-2096	End Reinforcement Beam
122-2097	Wood Framing Details - End

Group #42 Trucks

421-C-66	Journal Bearing 5 x 9
422-C-2566	Journal Bearing Wedge
421-C-4715	Dust Guard
422-C-6281	Bolts, Nuts, Wear Plates
422-C-7323	Special Cotters
422-C-8182	Friction Castings
425-C-9340	Truck Assembly - 2-1/2" Spring Travel
423-C-9433	Truck Side Frame - Type S-2
423-C-9432	Truck Bolster
421-2013	Spring Plank
421-2052	Truck Side Bearing Block

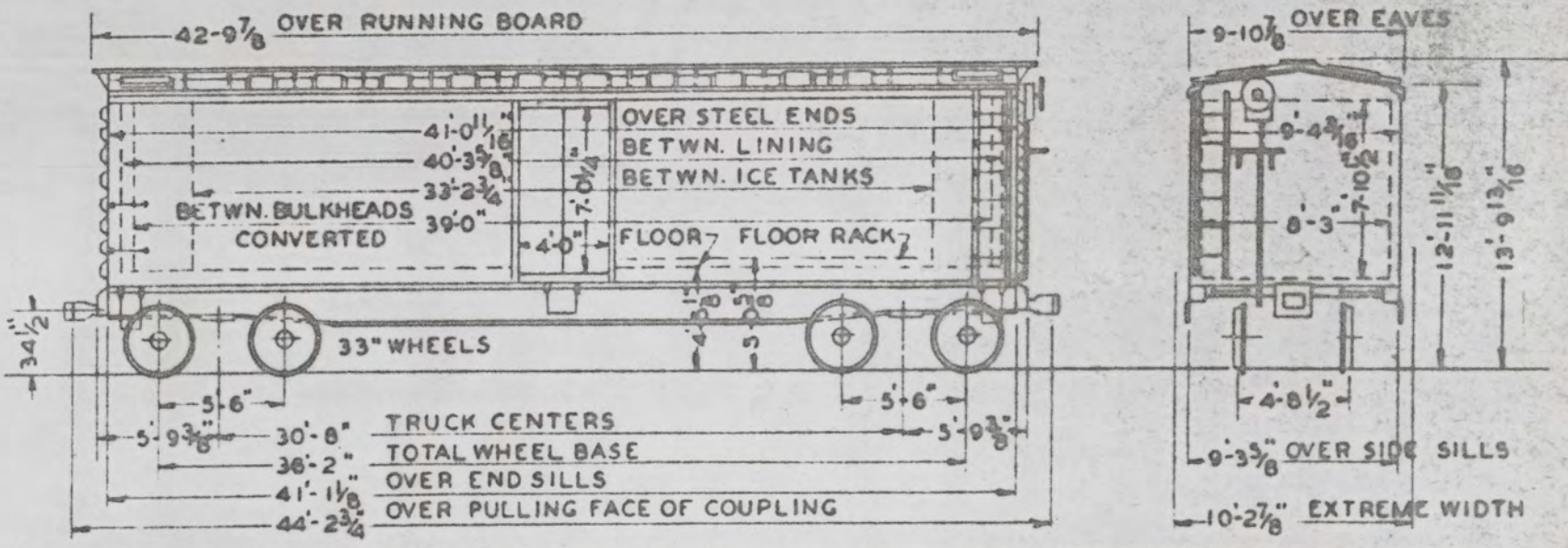
Group #44 - Underframe

443-2004	Underframe Details
441-2008	Push Pole Pocket
202-2015	Striking Casting & Front Draft Gear Stop
441-2018	Body Center Plate
202-2023	Striking Casting Application
442-2033	Corner Construction at Sill (R-30-24)
201-2043	Draw Bar Stop Extension
443-2050	Underframe & AB Brake Arrangement
441-2095	Body Side Bearing Wear Plate (R-30-24)
441-C-4480	Body Side Bearing (R-40-24)
C-2665	Body Side Bearing (R-30-24)
Sk. 1426	Sill Step & Handhold at Doorway
443-C-4397	**Body Bolster Details**

CLASS
R-30-24
R-40-24

REFRIGERATOR CAR
70000 LBS CAPACITY

CAR NO'S.
65921-68532



LENGTH INSIDE OF LINING	40'-3 5/8"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-10 1/2"
CU. CAP. BETWEEN ICE TANKS ABOVE FLOOR RACK	1988 CU. FT.
CAP. OF BOTH ICE TANKS	11500-LBS.
WT. OF EACH TRUCK	7200-LBS.
LT. WT. OF CAR COMPLETE	50800 LBS
UNDERFRAME	R.R. DESIGN
SUPERSTRUCTURE	WOOD SHEATHING STEEL POST & BRACES

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P.F.E.CO.	2810	1948

REFERENCE DRAWINGS	
GENERAL DESIGN	243-2000
INSUL. APPL.	273-2001
ICE TANK	262-2005
UNDERFRAME & AB BRKS.	443-2050
STEEL FRAMING	123-2002
AIR CIRC. FAN APPL.	022-2123 & 2180
STEEL ENDS	374-2178
STEEL ROOF	322-2027 & 322-2176
PAINTING LETTERING & NO.	302-2100

AXLE - JOURNALS	5" x 9"
AIRBRAKE	A B NEW YORK
BRAKE BEAMS	CRECO
" " SUPP & SLI CHAIRS	"
" LEVER CONNECTIONS	SCHAEFER
COUPLERS	TYPE E
" YOKES WROT IRON & CAST STEEL	
" RELEASE RIGGING	ROTARY
" CENTERING DEVICE	U.M.P.
DRAFT GEARS	FRICTION
DOOR FASTENERS	MINER
ENDS	DREADNAUGHT - STEEL
HATCH PLUG - INTEGRAL	HAIRFELT
INSULATION - ROOF SIDES & ENDS	VARIOUS
" FLOOR	"
ROOF	SOLID STEEL
WHEELS	CAST IRON - 33"

HAND BRAKE	POWER
ICE TANK	CONVERTIBLE
METAL RUNNING BOARD	VARIOUS
AIR CIRCULATING FANS	PRECO
TRUCKS:	
65921-66019	BARBER STABILIZED-2-1/2"
66030-66542	BARBER STABILIZED-2-1/2"
66563-67420	BARBER STABILIZED-2-1/2"
66020-66029	SCULLIN L-V-3-13/16
66543-66562	BARBER STABILIZED - 3-13/16
67421-67936	A-3 RIDE CONTROL - 3-13/16
68001-68314	A-3 RIDE CONTROL - 3-13/16
68351-68532	A-3 RIDE CONTROL - 3-13/16 WITH "UNIT" BEAMS
67937-68000	A-3 RIDE CONTROL - 3-13/16 WITH "UNIT" BEAMS
68315-68350	A-3 RIDE CONTROL - 3-13/16 WITH "UNIT" BEAMS

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-24	R-36

GROUP INDEX OF DRAWINGS

FOR

PACIFIC FRUIT EXPRESS COMPANY

REBUILT CARS CLASS R-30-24 & R-40-24

SERIES 67421 to 68550

GROUP	PAGE
02-Heating & Ventilating	1
11-Axles & Wheels	1
12-Body-House	1 & 2
15-Brake Arrangement	2
16-Brake Details	2
18-Doors, Gates & Fixtures	2
20-Draft Gears	2 & 3
24-General Design	3
26-Ice Tank	3
27-Insulation	4
28-Miscellaneous	4
30-Painting Lettering & No.	4
32-Roof	4
34-Safety Appliances	4
36-Springs	5
37-Steel Ends	5
42-Trucks	5
44-Underframe	5

Note:

Drawings listed are P.F.E. drawings or sketches unless otherwise shown.

Group #02 - Heating & Ventilating

022-2181	Blower Assembly
022-2180	Fan Installation (Preco FK-2)
021-2126	Blower Sheave Assembly
021-2127	Blower Sheave Cover Assembly
021-2128	Box Assembly - Belt
021-2129	Drive Assembly
021-2130	Lever Assembly - Drive Release
021-2131	Tube Assembly - Drive Support
021-2132	Drive Support Bushing - Inboard
021-2133	Clip - Spring
021-2134	Housing Assembly - Belt
021-2184	Drive Guard Assembly
022-1030	70B Drive Belt
Sk. 1262	Drive Support Pin
Sk. 1263	Bracket Assembly - Precool Motor
Sk. 1268	Air Seal
Sk. 1269	Belt Guide Assembly
Sk. 1272	Spring - Drive
Sk. 1273	Lug - Drive Release

Group #11 - Axles & Wheels

111-C-44	Axles - 5" x 9"
113-C-8041	Cast Iron Wheels
112-C-8719	One Wear Wrought Steel Wheels

Group #12 - Body House

123-2002	Side Steel Frame
122-2006	Plywood Templates - Lining & Sub-Lining
122-2007	Plywood Templates - Ins. Spacer Blocks
322-2011	Plywood Templates - Ceiling
262-2012	Plywood Templates - Bulkhead
121-2014	Shoulder Bolts
121-2022	Threshold Plate
123-2026	Wood Framing Diagram
122-2034	Flashings
322-2046	Plywood Templates - Harborite (In Roof)
123-2053	End Wall Sections

Group #12 - Body House (Cont'd)

122-2058	Plywood Templates - Sheathing
123-2084	Wood Framing Details - Floor
122-2097	Wood Framing Details - End
123-2098	Wood Framing Details - Side
122-2099	Wood Framing Details - Ceiling
123-2101	Herringbone Floor Rack
121-2102	Door Hood & Protection Plate
322-2103	Ceiling Construction at Hatchway
122-2135	Sheathing & Sub-Floor Angles
121-2136	Door Header Tie Strap
121-2137	Floor Rack Extension
123-2207	Bolt Head Locks
Sk. 789	Floor Rack Holder
Sk. 1198	Link Fastener
Sk. 1226	Hinge - Floor Rack Extension
Sk. 1243	Spring Boards
123-C-9208	Floor Rack Hinge

Group #15 - Brake Arrangement

153-2159	Hand Brake - Arrangement - Ureco
443-2050	Underframe & AB Brake Arrangement

Group #16 - Brake Details

443-2004	Underframe Details
341-2149	Brackets at Steel End
161-2167	Buffalo Master Brake Shoe Key (Unit Truck)
161-2168	Unit Wear Plate (Unit Truck)
161-C-605	Cylinder and Floating Lever Connection
161-C-606	Top Lever Connections
163-C-5359	Cylinder and Floating Levers
163-C-8371	Badge Plate
162-C-9749	Brake Beam Suppt. & Sliding Chair
162-C-9786	Brake Hanger (Loop Type)
162-C-6443	Brake Hanger Wear Plate
162-C-4904	Brake Beam Hanger Cotter
162-C-5883	Brake Shoe (Duplane AAR-1A)
162-C-8919	Brake Shoe Key
161-C-7073	Bottom Rod Guard
162-C-9866	No. 3 Positive Brake Beam
162-C-9442	Unit Brake Beam (Unit Truck)
162-C-10416	No. 18 Positive Brake Beam
162 -2667	Brake Beam Support Chairs - Creco R-30-24 & R-40-24 (2nd Quota)

Group #18 - Doors, Gates & Fixtures

183-2105	Side Door
183-4869	Side Door Fasteners Details
C-713	Side Door Hinge

Group #20 - Draft Gear

204-C-4097	Draft Gear Key
202-C-7615	Coupler Yoke
201-2144	Draft Key Retainer Lock
C-4476	Draft Gear Carrier (R-40-24)
C-3496	Draft Gear Carrier (R-30-24)
203-C-5588	Coupler Type "E"
203-C-5817	Coupler Centering Device - Details
202-C-9385	Draft Key Retainer
202-2015	Striking Casting & Front Draft Gear Stop
202-2023	" " Application
201-2043	Drawbar Stop Extension
201-2089	Uncoupling Device
202-2090	Union Centering Device - Application

Group #24 - General Design

243-2000	General Design

Group #26 - Ice Tank

261-2003	Ventilator Assembly - Equipco
262-2005	Equipco Convertible Bulkhead
261-2009	Special Bolts
261-2010	Ice Tank Screens
261-2012	Plywood Templates - Bulkhead
261-2016	Bulkhead Ceiling Beam
261-2021	Floor Pan
122-2034	Flashings
262-2055	Drain Spout Application
262-2056	" " & Bottom Pan
262-2106	Ventilator Details
261-2107	Header Lock - Center
261-2108	" " - Side & Inter.
262-2120	Grate Rest & Ventilator Drip Trough

Group #26 - Ice Tank (Cont'd)

262-2123	Hinges & Locks
261-2138	Well Trap Assembly
Sk. 1076	Trolley Assembly
Sk. 1077	Lift Lever Fulcrum
Sk. 1080	Bottom Rail Hook
Sk. 1118	Stage Ice Grates
Sk. 1121	Floor Supports, etc.
Sk. 1123	Trolley Track
Sk. 1124	Lift Lever
Sk. 1208	Bunker Floor Rack & Slat
264-C-8978	Bulkhead Section and Post
264-C-8979	Grates (Alternate)
262-C-8997	Bulkhead Section with Toe Holes
263-C-9700	Bulkhead Grate - Full Tank - Left Side
263-C-9709	Bulkhead Grate - Full Tank - Center
263-C-9714	Bulkhead Grate - Full Tank - Right Side
262-C-9719	Header Lock - Side & Inter. (Alternate)
262-C-9721	Header Lock - Center (Alternate)

Group #27 - Insulation

273-2001	Insulation Application

Group #28 - Miscellaneous

283-C-9015	Placard Board
341-2149	Brackets at Steel End
282-C-6150	Defect Card Holder
123-2207	Bolt Head Locks

Group #30 - Painting, Lettering & Numbering

303-C-741	3" Figures
303-C-951	1" & 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures

Group #30 - Painting, Lettering & Numbering(Cont'd)

303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-10396	Union Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3919	7" Letters
304-2100	Lettering on Refrigerator Cars
303-C-10397	Stenciling for U.P. Medallion

Group #32 - Roof

322-2011	Plywood Templates - Ceiling
322-2176	Solid Steel Roof - Application(with Apex Run.Bd.)
322-2177	Solid Steel Roof - Details (with Apex Run. Bd.)
322-2031	Roof Support - Details
322-2032	Hatch Carline & Frame Assembly
322-2046	Plywood Templates - "Harborite" (in roof)
322-2099	Wood Framing Details - Ceiling
322-2103	Ceiling Construction at Hatchway
322-2104	Hatch Plug Arrangement and Wood Details
322-2139	Hatch Closure Arrangement
123-2207	Hatch Details - Forged
323-2228	Hatch Plug Cover Plate
Sk. 769	Hatch Hinges
Sk. 771	" Cover Lifter
Sk. 774	Operating Lever Fulcrum
Sk. 775	Hatch Closure Gasket
Sk. 778	Operating Lever Fulcrum
Sk. 780	Hatch Cover Bracket & Seal Pin
Sk. 1155	Hatch Hinges (Alternate)

Group #34 - Safety Appliances

341-2019	G-T Washer & Special Bolts
342-2035	Handholds
342-2054	Side & End Ladder & Brackets
342-2147	Metal Running Board - Apex
341-2146	Metal Brake Step - Apex
341-2149	Brackets at Steel End

Group #36 - Springs

361-C-9787	Outer Coil Spring - A-3
361-C-9788	Inner Coil Spring - A-3
361-C-9744	Ride Control Coil Spring - A-3
362-2415	Truck Springs 3-11/16" Travel

Group #37 - Steel End

371-2020	Corner Post
374-2178	Steel End - Application
374-2179	Steel End - Details
123-2053	End Wall Sections
341-2149	Brackets at Steel End
372-2094	Steel End Filler Clips
372-2096	End Reinforcement Beam
122-2097	Wood Framing Details - End

Group #42 - Trucks

423-C-9407	Friction Wear Plate
422-C-9409	Friction Casting
423-C-9789	Truck Side Frame
423-C-9790	Truck Bolster
423-C-9791	Truck Arrg't A-3 (3-13/16" Spring Travel)
421-C-9794	Dead Lever Bracket
423-C-9792	Truck Side Frame (Unit Truck)
423-C-9793	Truck Arrg't.(Unit Truck) 3-13/16" Spring Travel
421-2052	Truck Side Bearing Block
424-C-9960	Truck Side Frame (A-3)
422-C-9999	Wear Plate A-3
423-C-10943	Truck Bolster - Scullin (A-3)
424-C-9974	Truck Side Frame (Scullin)

Group #44 - Underframe

443-2004	Underframe Details
441-2008	Push Pole Pocket
202-2015	Striking Casting & Front Draft Gear Stop
441-2018	Body Center Plate
443-C-4397	Body Bolster Details

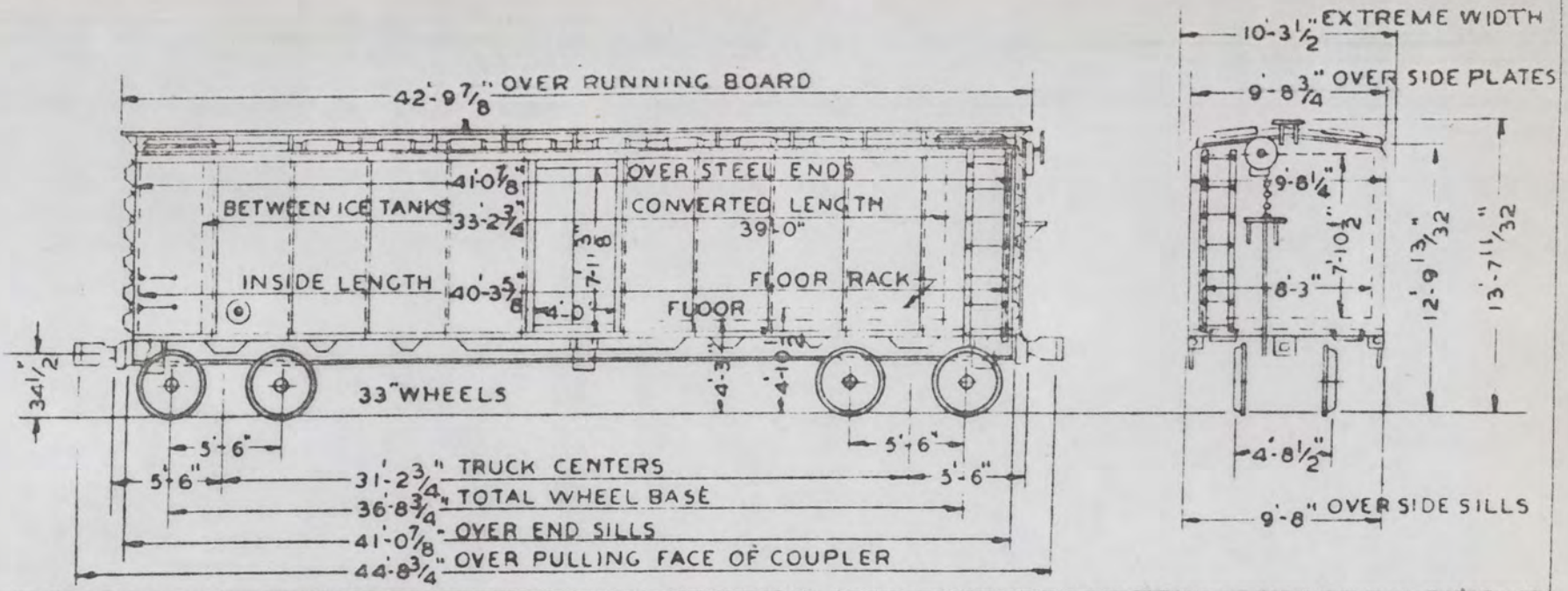
Group #44 - Underframe (Cont'd)

202-2023	Striking Casting Application
442-2033	Corner Construction at Sill (R-30-24)
201-2043	Draw Bar Stop Extension
443-2050	Underframe & AB Brake Arrangement
441-2095	Body Side Bearing Wear Plate (R-30-24)
441-C-4480	Body Side Bearing (R-40-24)
Sk. 1426	Sill Step & Handhold at Doorway

CLASS
R-40-23

REFRIGERATOR CAR
80000 LBS. CAPACITY

CAR NO'S.
3001-8000
46703-48702



LENGTH INSIDE OF LINING	40'-3 5/8"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-10 1/2"
CU. CAP. BETWEEN ICE TANKS-1988 CU. FT. ICE TANKS CONV. 2330 CU. FT.	
CAPACITY OF BOTH ICE TANKS	11500-LBS
WT. OF EACH AM. STL. DRY. A-3 TRUCK WITH STEEL WHEELS	6900-LBS
LT. WT. OF CAR WITH ONE WEAR WROT WHLS. 53400-WITH C.I. WHLS. 54300	
UNDERFRAME ALL WELDED TYPE	CAR BUILDER
SUPERSTRUCTURE	ALL STEEL

CAR BUILDERS	NO. CARS BUILT	YEAR BUILT
MT. VERNON	1000	1947
AM. CAR & FDY.	1000	"
GENL. AM. TR.	1000	"
PULL. STD.	1000	"
PACIFIC CAR	1000	"

REFERENCE - DRAWINGS	
GENERAL DESIGN	244-C-9803
BRAKE ARRGT.	444-C-9805
TRUCK ARRGT. A-3	423-C-9779
UNDERFRAME	444-C-9805
ROOF ARRGT.	324-C-9243
STL. END ARRGT.	374-C-9338
SIDE FRAMING DET. STL.	126-C-9800
ICE TANK ARRGT.	264-C-9697
ALLOCATION OF SPEC'LT'S	283-C-9862

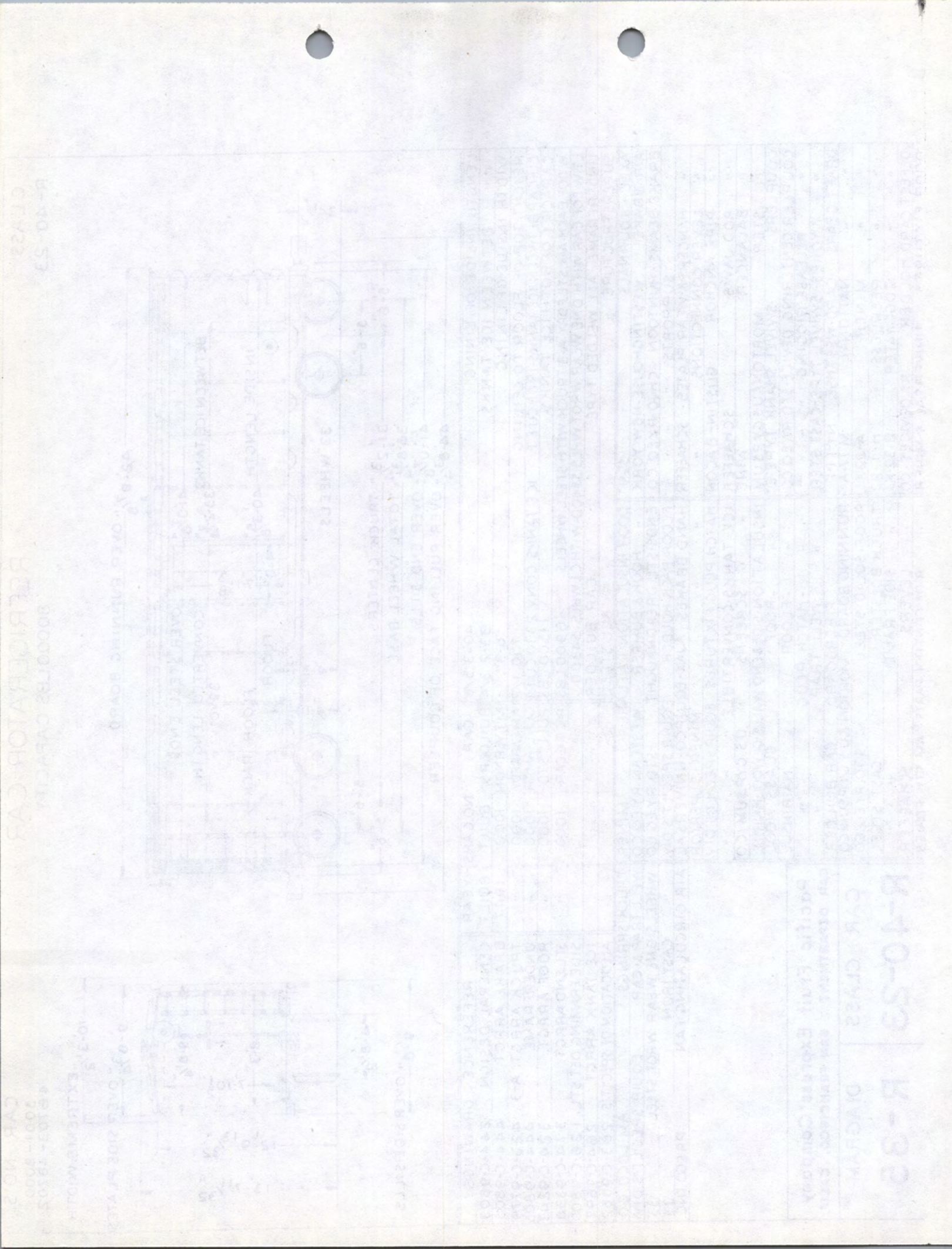
AXLE - JOURNALS	5"x9"
AIR BRAKE	WESTINGHOUSE-NEW YORK
BRAKE BEAMS - HUNTOON	CHGO RY. EQ. CO.
" " SUPPORTS	" " "
" " HANGERS & WEAR PLATES -	SCHAEFER
" " LEVER CONNECTIONS	"
" " PIPE ANCHOR	GUSTIN-BACON
" " ROD JAWS	SCHAEFER
" " BALANCER	WINE
" " STEP	MORTON & U S GYPSUM
COUPLERS	SWIVEL SHANK TYPE E
COUPLER CENTERING DEVICE -	STD. RY. EQ. CO.
" " RELEASE RIGGING	" " "
" " YOKES - SWIVEL TYPE -	CAST STEEL
DRAFT GEARS CARD-WESTINGHSE.	NY-TI-F
" " NATIONAL	M-17-A
" " MINER	A-22XL
" " PEERLESS	H-1-B2
" " EDGEWATER	B-32-KA
DEFECT CARD HOLDER	RY. DEVICES CO.
DOOR FIXTURES	UNIVERSAL & MINER

DOOR INSULATION LAFLARE	MINER
" HOOK & BUMPER	WESTERN RY. EQ. CO.
ENDS - STL. DREADNAUGHT	STD. RY. EQ. CO.
FLOOR RACK HOLDER	EQUIP. SPEC'LT'S. DIV.
HAND BRAKES AJAX-EQUIPCO-UNIVERSAL	
" "	MINER-SUPERIOR
HATCH PLUG FIXTURES	EQUIP. SPEC'LT'S. DIV.
ICE TANKS - CONVERTIBLE	" " "
" " SCREENS	U.S. GYPSUM CO.
INSULATION - SIDE & END WALLS -	GL WOOL-HAIRISL
" - ROOF	GLASS WOOL
" - FLOOR	HAIRINSUL
" - HATCH PLUG	"
" WELL TRAP	"
FIBERBOARD	CAR BUILDER
RUNNING BOARD	MORTON & U S GYPSUM CO.
ROOF - SOLID STEEL	STD. RY. EQ. CO.
TRUCK BOLSTER	CAST STEEL
" SIDE FRAME	" "
" LEVERS	SCHAEFER
" SIDE CONTROL PARTS -	AM. STL. FDRIES

TRUCK SPRINGS	AM. LOCO. CO.
WELL TRAP & CAP	EQUIP. SPEC'LT'S. DIV.
WHEELS - ONE WEAR WROT STEEL	33"
" CAST IRON	33"
AIR CIRCULATING FAN	PRECO INC.

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-23	R-35



Union Pacific Railroad Company
Research & Mechanical Standards

Group Index of Drawings for Class R-40-23 P.F.E.
Refrigerator Cars Series 5001-8000 & 46703-48702

Group 02 - Heating & Ventilating

020-C-9312	Drive Support bushing - inboard
022-1030	64B Drive Belt
020-C-9314	Clip - Spring
021-C-9315	Blower Sheave Cover Assembly
021-C-9316	Lug - Drive Release
021-C-9317	Drive Support Pin
022-C-9318	Tube Assembly - Drive Support
021-C-9319	Air Seal
021-C-9320	Belt Guide Assembly
021-C-9321	Bracket Assembly - Pre-cool Motor
021-2126	Blower Sheave Assembly
022-C-9323	Housing Assembly - Belt
022-C-9324	Drive Spring
022-C-9325	Lever Assembly - Drive Release
022-C-9326	Assembly - Wheel Drive
022-C-9327	Box Assembly - Belt
023-C-9328	Drive Assembly
024-C-9329	Blower Assembly
024-C-9330	Installation - Fg. 36

Group 11 - Axles & Wheels

111-C-44	Axles - 5" x 9"
111-C-1527	Marking for solid wrought Steel Wheels
111-C-7416	Marking for Single Plate Bracketed Wheels
113-C-8041	Cast Iron Wheels
112-C-8719	One Wear Wrought Steel Wheels

Group 12 - Body - House Cars

126-2229	Steel Sheathing & Framing
122-C-5725	Threshold Plate
122-C-8411	Lumber Templates
126-C-9809	Floor Rack Arrgt. & Details
123-C-9208	Floor Rack Hinges
122-C-9210	Ceiling Beam Bracket
126-C-9800	Side Framing Details - Steel
123-C-9781	Door Hood & Threshold Details
126-C-9806	End Wall Sections
126-C-9802	Body Wood Framing Arrgt.
123-C-9230	Plywood Templates - Insulation Spacer Blocks
123-C-9231	Floor Rack Extension
124-C-9232	Plywood Templates - Lining and Sub-lining

Group 12 - Body - House Cars (Cont'd)

126-C-9808	Floor Stringer Arrgt. & Detail
126-C-9797	Wood Details - Sides
123-C-10038	Floor Rack Hinges (Alternate)
124-C-9489	ZU - Special Side Plate
123-C-9712	Floor Rack Holder Application
122-C-9723	Floor Rack Holder Hook for Fan Rack Extension
122-C-9724	Floor Rack Side Wall Hook
121-C-9725	Floor Rack Link Guide
121-C-9726	Floor Rack Link
121-C-9727	Floor Rack bearing Block
124-C-9765	Arrgt. & Details Harborite, Plywood Ceiling
123-C-9775	Bolt Head Lock
123-C-9778	Body Steel Details and Running Board Angle
123-C-9782	Misc. Wood Details
123-C-9773	Corner Cap
123-C-9771	Floor Rack Extension Hinge & Butt

Group 15 - Brake Arrangement

153-C-9667	Hand Brake Arrgt. - Universal
153-C-9671	Hand Brake Arrgt. - Miner
153-C-9722	Hand Brake Arrgt. - Equipco
153-C-9737	Hand Brake Arrgt. - Ajax
153-C-9860	Hand Brake Arrgt. - Superior
	For Brake Arrgt. see Drwg. 444-C-9805

Group 16 - Brake Details

Sk. 616	Forged Pins
161-C-141	Brake Lever Pins
162-C-4266	Push Rod
162-C-4440	Brake Pipe Anchor - Gustin Bacon
162-C-4904	Brake Beam Hanger Cotter
162-C-5160	Truck & Cylinder Lever Connection
162-C-5161	Cylinder & Floating Lever Connection
162-C-5183	Hand Brake Connection & Clevis
162-C-5115	Bell Crank Chain
162-C-5306	Housing Support & Brake Rod
162-C-5883	Brake Shoe
162-C-5902	Connecting Chain
163-C-5904	Brake Rod Jaw - Schaefer
162-C-5934	Badge Plate
163-C-6215	Brake Balancer - Wine
163-C-6218	Brake Balancer - Wine - Anchor
163-C-6219	Brake Balancer - Wine - Connection
162-C-6443	Brake Hanger Bracket Wear Plate
162-C-6444	Truck Lever Connection
162-C-6457	Floating Lever - Schaefer
162-C-6458	Cylinder Lever - Schaefer
162-C-6697	Brake Rod Jaw

Group 26 - Ice Tank

263-C-8812	Ice Tank Screens
263-C-8831	Plywood Bulkhead Pad & Ventilator
262-C-8963	Bottom Rail Hook
262-C-8964	Lift Lever Flashing
263-C-8965	Lift Lever Hanger, Lift Lever & Details
263-C-8966	Steel Details
262-C-8967	Lift Lever Fulcrum
263-C-8971	Trolley Assembly
264-C-8974	Bunker Floor Rack & Slat
264-C-8976	Ice Tank Steel Details
264-C-8979	Grate Section - Stage Ice
264-C-8980	Ventilator Details
262-C-8997	Bulkhead Sections with Toe Holes
262-C-9212	Floor Pan
264-C-9763	Ice Tank Wood Details
264-C-9696	Lift Lever Assembly
264-C-9697	Ice Tank Arrgt.
263-C-9698	Bottom Rail Hook Assembly
263-C-9699	Bulkhead Ventilator Assembly
263-C-9700	Bulkhead Grate Full Tank
263-C-9701	Ventilator Conn. Angle Front
262-C-9703	Bulkhead Floor Rack Slat
262-C-9704	Bulkhead Rear Lock & Back Stop
263-C-9707	Drain Spout
263-C-9708	Drain Spout Sub Sill Drip Pan Arrgt.
263-C-9709	Bulkhead Grate - Full Tank
262-C-9710	Bulkhead Ventilator Drip Trough
262-C-9711	Bulkhead Ventilator Conn. V-Channel
263-C-9713	Bulkhead Ceiling Beam
263-C-9714	Bulkhead Grate - Full Tank
262-C-9716	Bulkhead Grate - Stage Ice
263-C-9717	Bulkhead Trolley Track
262-C-9718	Bulkhead Grate Rest - Full Tank
263-C-9719	Bulkhead Header Lock
263-C-9720	Well Trap Assembly
263-C-9721	Bulkhead Lock - Center
261-C-9728	Drain Spout Wind Guard
261-C-9728	Drain Spout Sub Sill Drip Pan
264-C-8978	Bulkhead Sections & Post
261-C-9730	Bulkhead Ventilator Guide - Left
261-C-9731	Bulkhead Grate Hinge Butt - Full Tank
261-C-9732	Bulkhead Ventilator Guide - Right
261-C-9733	Bulkhead Ventilator Z-Bar
261-C-9734	Bulkhead Lock Plate for Lift Adjustment
266-C-9801	Cross Section of Car Showing Ice Bunker Conditions
266-C-9811	Cross Section Thru Convertible Bulkhead
264-C-9767	Flashing Details

Group 27 - Insulation

274-C-9799	Floor Insulation
276-C-9810	Insulation Applic. - Side Walls

Group 28 - Miscellaneous

282-C-6010	Routing Card Board
283-C-6150	Defect Card Holder - Real
283-C-9015	Placard Board
282-C-9784	Ownership Plate Cars 6001-6500 & 46703-47202
283-C-9862	Allocation of Specialties

Group 30 - Painting, Lettering & Numbering

303-C-741	3" Figures
303-C-951	1" and 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-3915	7" Letters
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3918	7" Letters
303-C-3919	7" Letters
304-C-9861	Lettering on Refrigerator Cars
303-C-10396	Union Pacific Medallion
303-C-10397	Stenciling For U.P. Medallion

Group 32 - Roof

323-C-7596	Hatch Closure Gasket
322-C-8210	Operating Lever Fulcrum & Bolt
322-C-8211	Hatch Closure Cover Lifter
323-C-8198	Hatch Closure Cover Bracket
321-C-8333	Hatch Plug Hinge
321-C-8334	Hatch Plug Hinge Butt
324-C-9220	Hatch Plug Arrgt. & Wood Details
323-C-9227	Plywood Templates - Ceiling
324-C-9233	Upper Framing Details
324-C-9243	Solid Steel Roof
324-C-9244	Hatch Frame & Carline Assembly
323-C-9356	Vent. Lever Fulcrum Securement

Group 32 - Roof (Cont'd)

324-C-9491	Roof Steel Details - Morton
324-C-9508	Roof Steel Details - Gypsum
324-C-9695	Hatch Closure Arrgt.
322-C-9705	Hatch Cover Bracket
322-C-9706	Seal Pin
323-C-9715	Hatch Closure Operating Lever
326-C-9804	Hatch Framing - Roof
323-C-9780	Hatch Plug Steel Cover & Details
321-C-9785	Application of Canvas at Plug Lock
323-C-9772	Hatch Cover Steel Details & Fan Drive Cover

Group 34 - Safety Appliances

344-C-5188	Handholds
342-C-7661	Running Board Support
342-C-8372	Brake Step Brackets
342-C-9311	Special Washer for Safety Appliances
343-C-9648	Running Boards - Apex
342-C-9649	Brake Step - Gypsum
343-C-9650	Running Boards - Gypsum
344-C-9693	Running Boards - Arrgt. - Morton
342-C-9694	Brake Step - Morton
344-C-9769	Side and End Ladders
341-C-9783	Sill Step
341-C-9848	Sill Step at Door
341-C-9849	Sill Step at Door

Group 36 - Springs

361-C-9742	Outer Coil Spring - A-3
361-C-9743	Inner Coil Spring - A-3
361-C-9744	Ride Control Coil Spring - A-3

Group 37 - Steel Ends

373-C-9225	Steel End Filler Clip Arrgt. & Details
374-C-9762	Wood Details - End Framing
374-C-9239	Steel End Reinforcement Beam
374-C-9338	Steel End Arrgt.
374-C-9490	Steel End Details

Group 42 - Trucks

422-C-2566	Journal Bearing Wedge
422-C-4264	Center Pin
421-C-4715	Dust Guard
423-C-7318	Journal Box Lid - Sym. Gould
421-C-7516	Truck Side Bearing
421-C-8476	AAR Emergency Journal Bearing
423-C-9070	Method of Assembling A-3 Truck
422-C-9407	Application of Friction Plates to Side Frames A-3
422-C-9408	Method of Assembling Ride Control Elements A-3
423-C-9409	Friction Casting
423-C-9661	Truck Side Frame - Scullin
423-C-9662	Truck Bolster - Scullin
424-C-9740	Truck Bolster - Sym. Gould
424-C-9741	Truck Side Frame - Sym. Gould
423-C-9745	Truck Side Frame - Am. Steel
423-C-9746	Truck Bolster - Am. Steel
423-C-9747	Truck Arrgt. A-3
423-C-9758	Truck Side Frame - Buckeye
423-C-9759	Truck Bolster - Buckeye
423-C-9756	Truck Bolster - Ohio
423-C-9757	Truck Side Frame - Ohio
423-C-9779	Truck Arrgt. A-3
422-C-9473	Journal Box Lid - Flexo No. 2
423-C-10943	Truck Bolster - Scullin (A-3)
423-4283	Truck Side Frame (A-3)

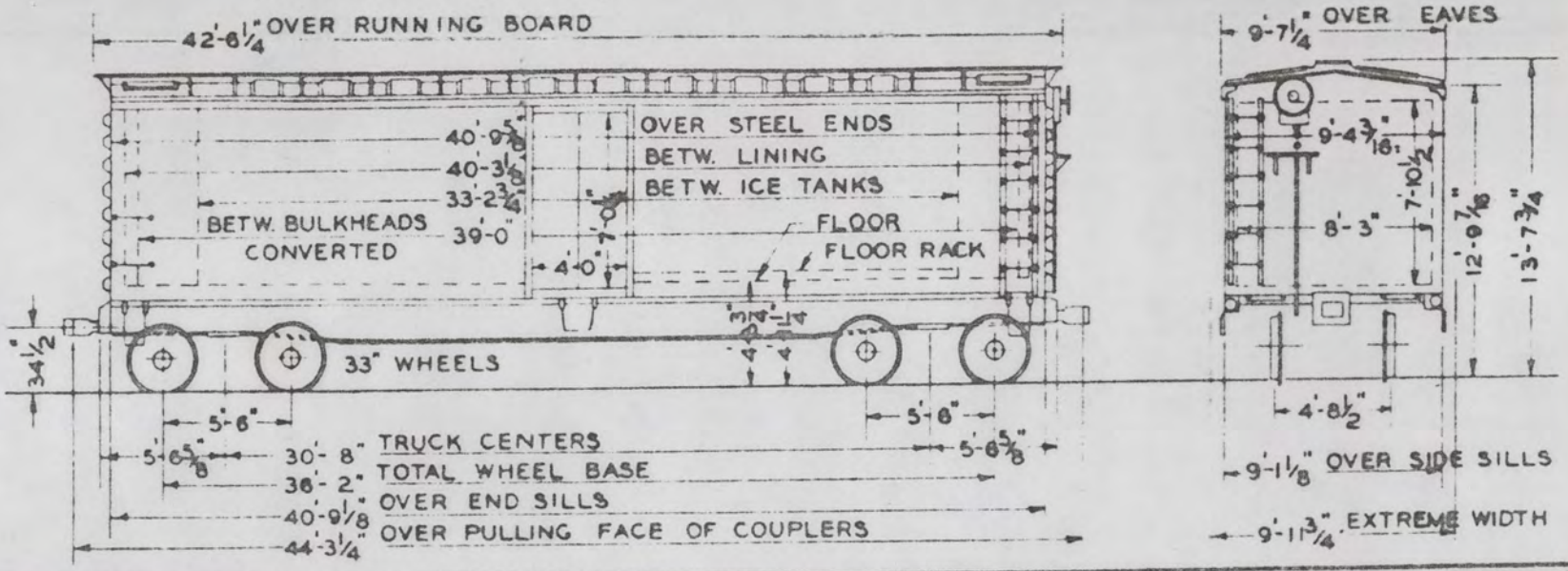
Group 44 - Underframe

443-C-6316	Front Draft Gear Stop
442-C-6361	Body Center Plate
444-C-6304	Striking Plate Details
444-C-6409	Bolster Center Filler
444-C-9805	Underframe Arrgt. & Brake Arrgt.
444-C-9796	Welding Diagram - Underframe
444-C-9760	Bolster Center Filler - Die Pressed Hot
444-C-9812	Body Bolster Arrgt. & Details
444-C-9815	Crossbearer Arrgt. & Details
443-C-9774	Body Side Bearing & Details
443-C-9777	Crosstie Arrgt. & Details
443-C-9776	Center Sill Details
444-C-9770	Push Pole Pocket & Brace
444-C-9993	Bolster Center Filler (Buckeye)
444-C-9814	Underframe Details

CLASS
R-30-21
R-40-21

REFRIGERATOR CAR
70000 LBS. CAPACITY

CAR NO'S.
63501-65920



LENGTH INSIDE OF LINING	40'-3 1/8"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-10 1/2"
CU. CAP. BETWEEN ICE TANKS ABOVE FLOOR RACK	1988 CU. FT.
CAP. OF BOTH ICE TANKS	11500 LBS.
WT OF EACH TRUCK	7200 LBS.
LT. WT. OF CAR COMPLETE	50300 LBS.
UNDERFRAME	R.R. DESIGN AND BETTENDORF
SUPERSTRUCTURE	WOOD SHEATHING STEEL POST & BRACES

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P.F.E. CO.	2000 ON ORDER 1945-46	1945 AND SUBSEQUENT

CONVERTED FROM VARIOUS SERIES.

REFERENCE DRAWINGS	
GENERAL DESIGN	P.F.E. SK 1100
INSUL. APPL.	" " 1095
ICE TANK	" " 1082
UNDERFRAME & ABBRKS.	" " 816 & 817
STEEL FRAMING	" " 1069
AIR CIRCUL. FAN APPL.	" " 1254
STEEL ENDS	" " 1074
STEEL ROOF	" " 1221
PAINTING LETTERING & NO.	" " 1108

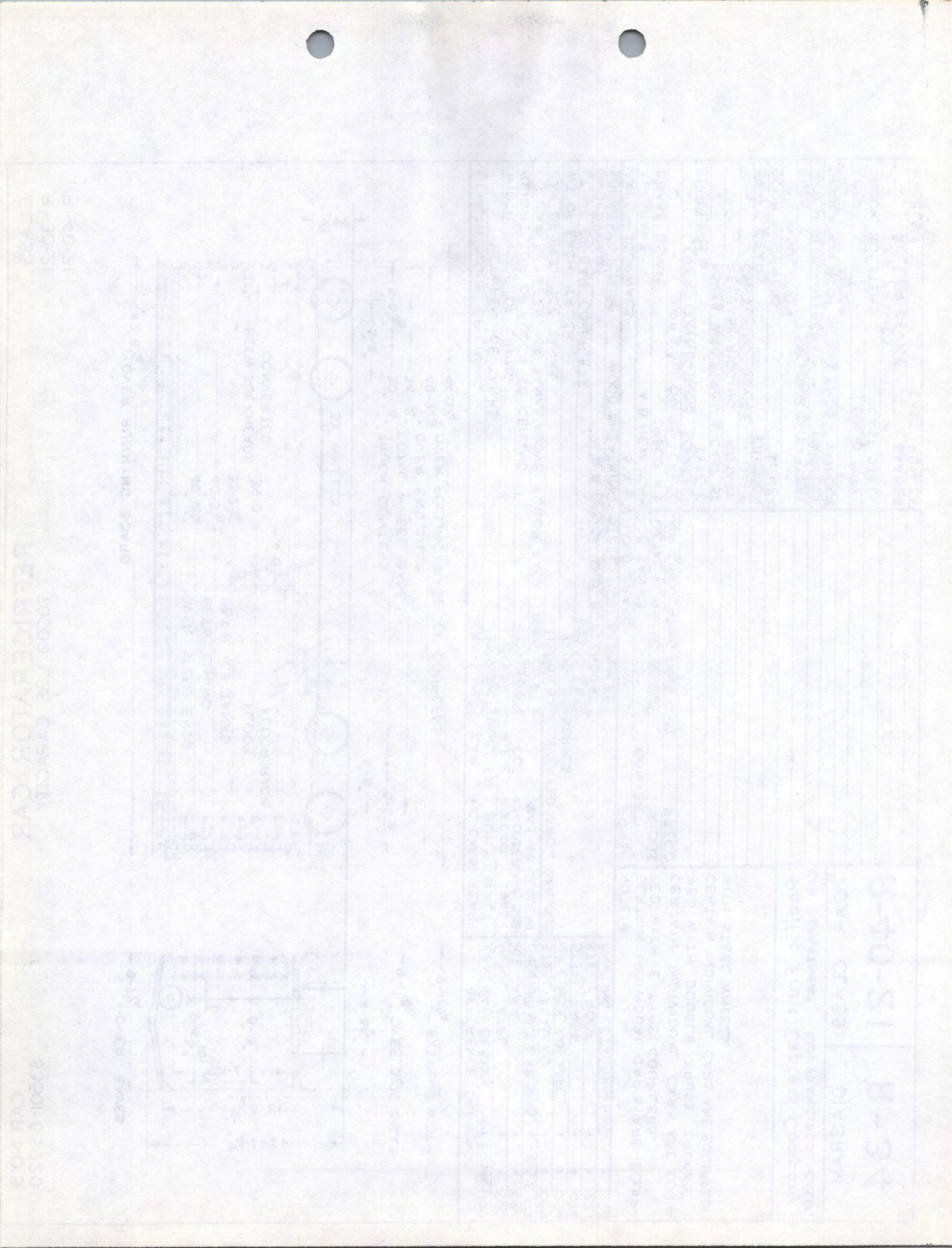
AXLE - JOURNALS	5"X 9"
AIRBRAKE	A B NEW YORK
BRAKE BEAMS	CRECO # 3
" " SUPP. & SLI. CHAIRS	CRECO
" LEVER CONNECTIONS	SCHAEFER
COUPLERS *	TYPE-D
" YOKES WROT IRON & CAST ST.	
" RELEASE RIGGING	ROTARY
" CENTERING DEVICE	U.M.P.
DRAFT GEARS	FRICTION
DOOR FASTENERS	MINER
" INSULATION	"
ENDS	DREADNAUGHT - STEEL
HATCH PLUG - INTEGRAL	HAIRFELT
INSULATION ROOF SIDES & ENDS	VARIOUS
" FLOOR	"
ROOF	SOLID STEEL
TRUCK BOLSTERS	CAST STEEL
" SIDE FRAMES	" "
" ROLLER DEVICE	BARBER
WHEELS *	CAST IRON 33"

HAND BRAKE	POWER
ICE TANKS	CONVERTIBLE
METAL RUNNING BOARD	VARIOUS
AIR CIRCULATING FANS G-17	PRECO

NOTE: *
CERTAIN INDIVIDUAL CAR'S ARE EQUIPPED WITH E TYPE COUPLERS.
CERTAIN INDIVIDUAL CARS ARE EQUIPPED WITH DOUBLE TRUSS TRUCKS.
CERTAIN INDIVIDUAL CARS ARE EQUIPPED WITH STEEL WHEELS.

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-21	R-34



GROUP INDEX TO DRAWINGS FOR PFE REFRIGERATOR CARS CLASS R-30-21 AND R-40-21

Group #02 - Heating & Ventilating

022-1030	Drive Belt
Sk. 1254	Preco Fan Application G-17
Sk. 1258	Drive Support
Sk. 1260	Spring Clip
Sk. 1261	Blower Sheave Assembly
Sk. 1262	Drive Support Pin
Sk. 1263	Precool Bracket
Sk. 1265	Precool Hub Assembly
Sk. 1267	Blower Sheave Cover Assembly
Sk. 1268	Air Seal
Sk. 1269	Belt Guide Assembly
Sk. 1272	Drive Spring
Sk. 1273	Drive Release Lug
Sk. 1274	Drive Release Lever Assembly
Sk. 1275	Drive Wheel
Sk. 1277	Belt Housing Assembly
Sk. 1279	Blower Segment
Sk. 1283	Drive Support Tube Assembly
Sk. 1285	Belt Box Assembly
Sk. 1286	Blower Assembly
Sk. 1270	Drive Support Tube Assembly

Group 11 - Axles and Wheels

111-C-44	Axles 5" x 9"
C-2723	Wheels - Cast Iron

Group 12 - Body House

Sk. 555	Flashings
Sk. 562	Floor Rack Hinges
Sk. 592	Floor Rack Stop
Sk. 682	End Post Brace
Sk. 757	Shoulder Bolt
Sk. 759	Door Hood & Protection Plate
Sk. 760	Threshold Details
Sk. 789	Floor Rack Holder - Equipco
Sk. 957	Door Framing
Sk. 973	Door Header Tie Strap
Sk. 1004	J Bolts
Sk. 1052	Templates for Various Lumber
Sk. 1069	Side Steel Framing Details
Sk. 1085	Herringbone Floor Rack
Sk. 1087	Corner Posts
Sk. 1088	Coping Board & Moulding

Group 12 - Body House (Cont'd)

Sk. 1092	Plywood Templates - Ceiling
Sk. 1093	Plywood Templates - Lining
Sk. 1094	Flashings
Sk. 1098	Framing Diagram & Details
Sk. 1107	Plywood Templates - Ventilator
Sk. 1109	Insulation Cleats
Sk. 1110	Framing & Cleating Diagram
Sk. 1117	Wall Sections at Ice Tank
Sk. 1226	Hinge - Floor Rack Extension
Sk. 1227	Sheathing & Sub-Floor Angles
Sk. 1230	Herringbone Floor Rack
Sk. 1231	Floor Rack Extension
Sk. 1243	Spring Boards
Sk. 1245	Floor Rack Holder Application - Azee
Sk. 1316	Steel Frame (Modified) (Preco Bkhd.)
123-2207	Bolt Head Locks
122-C-967	Templates for Roofing, Flooring & Siding
121-C-5318	Doorway Flashing

Group 15 - Brake Arrangement

Sk. 816	Details & Application of AB Brakes (R-30-11,12,14)
Sk. 817	Details & Application of AB Brakes (R-30-13&R-40-2)
Sk. 1112	Hand Brake Arrangement

Group 16 - Brake Details

162-2667	Brake Beam Support Chairs - Creco
Sk. 528	Retainer Pipe Clamp
Sk. 537	Brake Hanger "U" Type
Sk. 570	Hand Brake Rod Guide
Sk. 616	Forged Pins
Sk. 766	Retainer Pipe Bracket
Sk. 885	Bell Crank Bracket
Sk. 970	Angle Cock Support
161-C-141	Brake Lever Pins
162-C-4266	Push Rod
162-C-4440	Brake Pipe Anchor (Gustin-Bacon)
161-C-4509	Brake Hanger (Loop Type)
161-C-4520	Hand Brake Connecting Chain
162-C-4904	Brake Hanger (Loop Type)
161-C-5115	Bell Crank Chain
163-C-5359	Cylinder & Floating Lever
163-C-5808	Air Brake Details
162-C-5865	Brake Hanger Bracket Wearing Plate
162-C-5867	Brake Beam Support & Sliding Chair
162-C-5883	Brake Shoes (Duplane)
162-C-6443	Brake Hanger Bracket Wear Plate
163-C-8371	Badge Plate

Group 16 - Brake Details (Cont'd)

162-C-10172	Adjustable Type Chair (Creco)
162-C-10416	No. 18 Positive Brake Beam

Group 18 - Doors, Gates & Fixtures

Sk. 1096	Side Door
183-C-4314	Side Door Fastener Details

Group 20 - Draft Gears

Sk. 948	Coupler Release Rigging Imperial Type B
Sk. 949	Imperial Type B Coupler Release Details
Sk. 950	Imperial Bracket Detail
Sk. 951	Imperial Bracket Detail
201-C-4314	Draft Key Retainer

Group 24 - General Design

Sk. 1100	General Design

Group 26 - Ice Tank

Sk. 1075	Bulkhead Ceiling Beam
Sk. 1076	Bulkhead Trolley Assembly
Sk. 1077	Lift Lever Fulcrum
Sk. 1078	Header Lock - Center
Sk. 1079	Header Lock - Sides & Inter.
Sk. 1080	Bottom Rail Hooks
Sk. 1081	Sections, etc.
Sk. 1082	Equipco Convertible Bulkhead
Sk. 1083	Grate Rests & Drip Trough
Sk. 1084	Ice Grates
Sk. 1093	Plywood Templates (Ice Tank Lining)
Sk. 1102	Ceiling Beam - Alternate
Sk. 1103	Ice Tank Details - Wood
Sk. 1106	Trolley Track Flashing & Hatch Carline Reinf.
Sk. 1107	Plywood Templates Ventilator
Sk. 1111	Drip Trough & Bottom Pan
Sk. 1113	Trolley Track Bracket
Sk. 1117	Wall Sections at Ice Tank
Sk. 1090	Floor Pan

Group 26 - Ice Tank (Cont'd)

Sk. 1118	Stage Ice Grates
Sk. 1119	Hinges & Locks
Sk. 1120	Bunker Floor Rack
Sk. 1121	Floor Supports, etc.
Sk. 1122	Ventilator
Sk. 1123	Trolley Track
Sk. 1124	Lift Lever
Sk. 1125	Screens
Sk. 1126	Ventilator Assembly
Sk. 1400	Bulkhead Application - Preco
Sk. 1307	Side Rail Clips (Preco Bkhd.)
Sk. 1309	Plywood Templates (Preco Bkhd)
Sk. 1310	Ice Tank Details - Wood (Preco Bkhd.)
Sk. 1311	Plywood Templates - Ceiling (Preco Bkhd.)
Sk. 1312	Ice Tank Lining & Floor Pan Flashing (Preco Bkhd.)
Sk. 1313	Floor Pan (Preco Bkhd.)
Sk. 1317	Trolley Track Flashing (Preco Bkhd)
Sk. 1318	Stop for Ventilator Pad (Preco Bkhd.)

Group 27 - Insulation

Sk. 1095	Insulation Application
Sk. 1134	Application of Balsam Wool to Ceiling
Sk. 1241	Insulation Application
Sk. 1319	Wall Sections at Ice Tank (Preco Bkhd.)

Group 28 - Miscellaneous

282-C-6150	Defect Card Holder - Real
282-C-9567	Defect Card Holder - Cheeper

Group 30 - Painting, Lettering & Numbering

304-2100	Painting, Lettering and Numbering
303-2269	Stenciling - Roof
303-C-741	3" Figures
303-C-951	1" and 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3918	7" Letters
303-C-3919	7" Letters

Rev. August 9, 1951

Group 30 - Painting, Lettering & Numbering(Cont'd)

303-C-10396	Union Pacific Medallion
303-C-10397	Stenciling for U.P. Medallion
303-2269	Stenciling - Roof

Group 32 - Roof

Sk. 751	Hatch Details - Forged
Sk. 763	Hatch Plug Cover Plate
Sk. 769	Hatch Hinges
Sk. 775	Hatch Closure Gasket (Equipco)
Sk. 780	Hatch Cover Bracket & Seal Plate
Sk. 793	Hatch Cover Bracket
Sk. 794	Hatch Closure Bracket
Sk. 946	Hatch Carline & Hatch Frame Assembly
Sk. 947	Eaves & Corner Roof Supports
Sk. 1005	Hatch Plug Framing
Sk. 1006	Hatchway Arrangement (Equipco)
Sk. 1007	Hatchway Arrangement (Holland)
Sk. 1092	Plywood Templates - Ceiling
Sk. 1101	Upper Framing & Hatch Framing
Sk. 1105	Hatchway Lining
Sk. 1127	Hatchway Arrangement
Sk. 1221	Solid Steel Roof
Sk. 1222	Solid Steel Roof - Details
Sk. 1300	Solid Steel Roof - Details (with Morton R.B.)
Sk. 1301	Solid Steel Roof (with Morton R.B.)
323-C-8816	Hatch Plug Arrangement & Wood Details
Sk. 1314	Hatchway Lining (Preco Bkhd.)
Sk. 1315	Upper Framing & Hatch Framing (Preco Bkhd.)
Sk. 1322	Ceiling Construction at Hatchway (Preco Bkhd.)

Group 34 - Safety Appliances

Sk. 868	Roof Handhold
Sk. 975	Brake Step
Sk. 1086	Side & End Ladder
Sk. 1116	Running Board Angle
Sk. 1220	Metal Running Board (Apex)
Sk. 1223	Metal Running Board (Gypsum)
Sk. 1233	Metal Running Board (Blaw Knox)
Sk. 1251	Metal Running Board (Morton)

Group 36 - Springs

361-C-63	Truck Spring
362-C-6966	Spring Plates

Group 37 - Steel Ends

Sk. 1073	Steel End Details
Sk. 1074	Steel End Arrangement
Sk. 1089	Steel End Reinforcement Beam
Sk. 1099	Steel End Fillers & End Plate
Sk. 1104	Steel End Filler Clips
Sk. 1306	Steel End Reinforcement Beam (Preco Bkhd.)
Sk. 1308	Steel End Bolting Clip (Preco Bkhd.)

Group 42 - Trucks

Sk. 482	Spring Planks (with Bettendorf)
Sk. 575	Spring Planks (A.A.R. Type)
Sk. 700	Column Guide Wearing Channels
423-2247	Packing Retainers - Holdrite
422-C-7508	Truck Assembly
422-C-7509	Spring Plank
423-C-7510	Truck Side Bearing
423-C-7516	Truck Side Bearing Block
423-C-7520	Truck Bolster
423-C-7521	Truck Side Frames
423-C-9473	Journal Box Lid - Flexo No. 2
423-C-9875	Journal Box Lid - Symington

Group 44 - Underframe

Sk. 421	Bolster Top Cover Plate
Sk. 422	Bolster Bottom Cover Plate
Sk. 546	Reinforced Body Bolster
Sk. 589	Body Bolster Diaphragm
Sk. 593	Application of Diagonal Braces
Sk. 865	Push Pole Pocket
Sk. 890	Bolster Brace Built-up Design Underframe
Sk. 952	Underframe Details
Sk. 1224	Body Bolster Diaphragm
Sk. 1225	Reinforced Body Bolster
Sk. 1228	Steel Side Sill
C-1469	Body Center Plate
C-2273	Underframe Details (R-30-12&13)
C-2340	Underframe (R-30-11)
C-2341	Underframe Details (R-30-11)
C-2551	Body Side Bearing
C-2677	Underframe (R-30-13)
C-2772	Underframe (R-30-12)

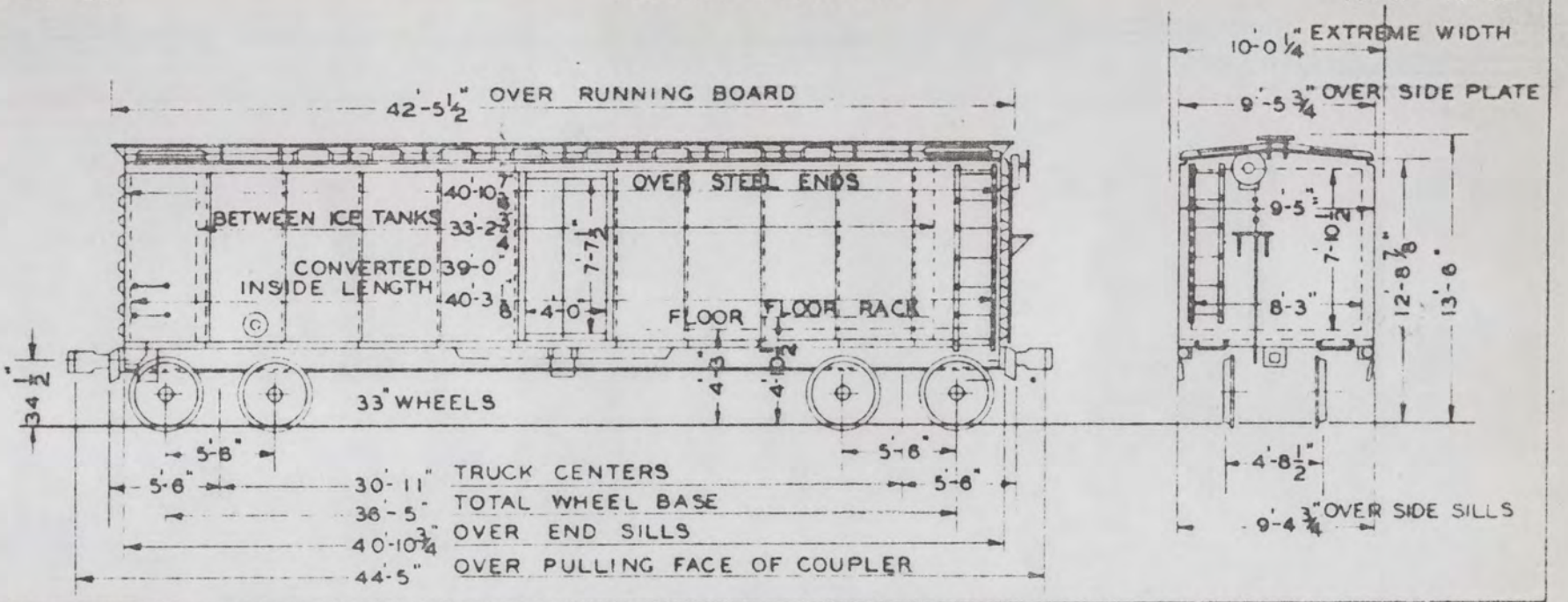
Group 44 - Underframe (Cont'd)

C-3174	Underframe Details (R-40-13&14)
C-3525	Underframe (R-30-13)
C-3696	Underframe Details (R-30-14)
C-3700	Underframe (R-30-14)
C-3701	Underframe Details (R-30-14)
C-4471	Underframe (R-40-2)
446-C-4472	Underframe Details (R-40-2)
441-C-7512	Body Center Plate
441-C-7515	Body Center Plate

CLASS
R-40-20

REFRIGERATOR CAR
78000 LBS. CAPACITY

CAR NO'S
45701 - 46700
46701 - 46702



LENGTH INSIDE OF LINING	40'-3 1/8"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-10 1/2"
CU. CAP. BETWEEN OPEN BUNKERS 1988 CU. FT. - CLOSED BUNKERS 2330 CU. FT.	
CAPICITY OF BOTH ICE TANKS	11500
WT. OF EACH BARBER S-2 STAB. DBL. TRUSS SPRING PLK TRK. 7107	
LT. WT. OF CAR WITH ONE WEAR WROT WHL 56300 - WITH C.I. WHL 57200	
UNDERFRAME	CAR BUILDER - RIVETED
SUPERSTRUCTURE	ALL STEEL

CAR BUILDER	NO CARS BUILT	YEAR BUILT
GEN. AM.	500	1945
MT. VERNON	500	"
CON STL	2	"

PRECO FAN MODEL FM-2
APPLIED 1950

REFERENCE DRAWINGS	
GENERAL DESIGN	244 C 8810
BRAKE ARRGT.	154 C 9048
TRUCK ARRGT.	424 C 9017
UNDERFRAME	444 C 7486
ROOF ARRGT.	324 C 8829
ST. END ARRGT.	374 C 8838
ST. SHEATHING ARRGT.	124 C 8418
ICE TANK	266 C 8820
FAN ARRGT.	026 2402

AXLE - JOURNALS	5" X 9"
AIR BRAKE	AB - NEW YORK
BRAKE BEAMS - BUFFALO-CHGO. - CRECO #3	
" " SUPP. & SLI. CHAIRS	CRECO
" HANGERS & WEAR PLATES	SCHAEFER
" LEVER CONNECTIONS	"
" PIPE CLAMPS	GUSTIN-BACON
" ROD JAWS	SCHAEFER
" BALANCER	WINE
" STEP	MORTON
COUPLERS	SWIVEL SHANK TYPE-E
" CENTERING DEVICE	STD. EQ. CO.
" RELEASE RIGGING	" " "
" YOKES	SWIVEL END CAST STEEL
DRAFT GEARS	WAUGH GOULD TYPE-403
" "	PEERLESS TYPE H-1-B
" "	NAT'L. MALL. TYPE M-17-A
" "	MINER A-22-X B
" "	CARD. WESTINGHOUSE - NY-11-F
DEFECT CARD HOLDER	AY DEVICES

DOOR FIXTURES	UNIVERSAL & MINER
" INSULATION	"
" HOOK & BUMPER	WESTERN RY. EQ.
ENDS	STEEL - DREADNAUGHT
FLOOR RACK HOLDER	EQUIPCO
HAND BRAKES	UNIVERSAL - AJAX
HATCH PLUG FIXTURES	EQUIPCO
ICE TANK	EQUIP. SPEC. DIV.
" " SCREENS	" " "
INSULATION SIDE & END WALLS	GLASS WOOL
" ROOF	GLASS WOOL PANEL
" FLOOR	HOG HAIR
" HATCH PLUG	LOOSE HAIR
" WELL TRAP	" "
" FIBER BOARD	INSULITE
RUNNING BOARD	APEX
ROOF	SOLID STEEL
TRUCK BOLSTERS	CAST STEEL
" SIDE FRAME	" "
" LEVERS	SCHAEFER
" STABILIZER	BARBER TYPE S-2

TRUCK SRINGS	AMER. LOCO.
WELL TRAP & CAPS	MOLINE
WHEELS ONE WEAR WROT STEEL	33"
" CAST IRON	33"
GEN. AM. 45701-46200	WROT STL. WHLS.
MT. VERNON 46201-46700	C. I. "
CONSOL. STL. 46701-46702	WROT STL. "

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-20	R-33

Group Index of Drawings
for
Pacific Fruit Express Company

80,000 lb. Capacity Steel Sheathed Wood Lined Refrigerator Car
Class R-40-20
With 80,000 lb. Capacity Trucks
A.A.R. Design of Underframe
and
Convertible Ice Tanks
Series 45701-46702

Group #02 - Heating & Ventilating

Drwg. No.	
022-1030	Drive Belt
022-2399	Drive Sheave Assembly
026-2402	Fan Installation (FM-2)
022-2403	Belt Guide
020-2404	Spring Holder Assembly
020-2405	Drive Spring
021-2406	Release Lever Assembly
020-2407	Drive Assembly
021-2408	Inboard Bearing Assembly
023-2409	Drive Guard Assembly
020-2410	Belt Box Tube
021-2411	Air Seal Assembly
020-2412	Blower Assembly

ELECT FAN DRAWINGS -
3-R- 2204
1-R- 2553
1-R- 2638
4-R- 2670
4-R- 2675
4-R- 2696

Group #11 - Axles and Wheels

111-C-44	Axles 5" x 9"
111-C-1527	Marking for solid wrought Steel Wheels
112-C-8719	One Wear Wrought Steel Wheels
113-C-8041	Cast Iron Wheel

Group #12 - Body - House Cars

123-2401	Floor Rack Extension
121-C-5318	Doorway Flashing
122-C-5725	Threshold Plate
123-C-7481	Floor Rack Hinge (P.F.E. Design)
121-C-8353	Ceiling Support Bracket & Washer

Group #12 - Body - House Cars

121-C-8356	Protection Plate and Angle
123-C-8357	Steel Details
121-C-8358	Door Hood
122-C-8411	Lumber Templates
124-C-8418	Steel Sheathing & Framing
124-C-8813	Floor Rack
124-C-8814	Wall Sections
123-C-8815	Side Sheets
124-C-8824	Steel Details - Framing
123-C-8826	Floor Rack Holder
124-C-8827	Plywood Templates - Lining
122-C-8833	Ceiling Beam Bracket
124-C-8834	Diagram - Floor Framing
124-C-8838	Wood Details - Body
126-C-8839	Diagram - Side & End Framing
123-C-8841	Door Framing - Wood Details
124-C-8842	Diagram - Roof Framing
122-C-9014	Top Corner Connection
126-C-9019	Wood Details - Floor Stringers
124-C-8999	Side Plate Details
123-C-9043	Floor Rack Hinge Arrg't.

Group #15 - Brake Arrangement

154-C-9048	Air Brake Arrangement
153-C-8983	Hand Brake Arrgt. - Ajax
153-C-8984	Hand Brake Arrgt. - Universal

Group #16 - Brake Details

161-C-141	Brake Lever Pins
162-C-4266	Push Rod
162-C-4440	Brake Pipe Anchor - Gustin Bacon
162-C-4509	Brake Hanger - Loop Type
162-C-4904	Brake Beam Hanger Cotter
161-C-5146	Pins - Lower Unit
162-C-5160	Truck & Cylinder Lever Connection
162-C-5161	Cylinder & Floating Lever Connection
162-C-5183	Hand Brake Connection & Clevis
162-C-5306	Housing Support & Brake Rod
161-C-5594	Brake Shoe Key

Group #16 - Brake Details(Cont'd)

162-C-5718	Bottom Rod Guard
162-C-5883	Brake Shoe
162-C-5902	Connecting Chain
163-C-5904	Brake Rod Jaw - Schaefer
162-C-5115	Bell Crank Chain
162-C-5919	Truck Lever - Schaefer
163-C-6215	Brake Balancer - Wine
163-C-6218	Brake Balancer - Wine - Anchor
163-C-6219	Brake Balancer - Wine - Connection
162-C-6443	Brake Hanger Bracket Wear Plate
162-C-6444	Truck Lever Connection
162-C-6457	Floating Lever - Schaefer
162-C-6458	Cylinder Lever - Schaefer
162-C-6697	Brake Rod Jaw
162-C-7326	Brake Beam Support & Sliding Chair - Creco
162-C-7725	Brake Beam No. 3 - Chicago
162-C-7784	Brake Beam No. 3 - Creco
163-C-8352	Air Brake Details
162-C-8770	Brake Beam No. 3 - Buffalo
162-C-8996	Hand Brake Details
162-C-10416	No. 18 Brake Beam - Positive

Group #18 - Doors, Gates & Fixtures

182-C-5863	Side Door Hinge
183-C-5896	Door Hook and Bumper - Slam
184-C-8185	Side Door Fastener Arrgt. - Miner
183-C-8189	Side Door Fastener Arrgt. - Universal
183-C-8821	Side Door Wood Details
184-C-8822	Side Door Steel Details
183-C-8899	Pulley Housing
183-C-9016	Pulley Housing Location
186-C-9047	Side Door Arrgt.

Group #20 - Draft Gears

201-C-4097	Draft Gear Key
202-C-4281	Draft Gear Carrier
201-C-4793	Draft Gear Follower Plate
203-C-5508	Draft Gear - National - Type M-17-A
203-C-5548	Draft Gear - Miner - A-22-XB
203-C-5551	Draft Gear - Waugh Gould - Type 403

Group #20 - Draft Gears (Cont'd)

203-C-5817	Coupler Centering Device Details - Union
203-C-8112	Coupler Yoke - Swivel Type
202-C-8115	Coupler 6¼" x 8" Swivel Shank - Type "E"
203-C-8180	Application - Westinghouse Friction Draft Gear
203-C-8181	Application - Waugh Gould Friction Draft Gear
204-C-8186	Application - Miner Friction Draft Gear
204-C-8369	Striking Casting & Front Draft Gear Stop
203-C-8725	Draft Gear - Westinghouse - Type NY-11-F
203-C-8737	Draft Gear - Peerless - Type H-1-B
202-C-8950	Coupler Release Rigging - Rotary
204-C-8961	Coupler Centering Device
203-C-8949	Application of National Friction Draft Gear
202-C-9385	Draft Key Retainer - A.A.R.

Group #24 - General Design

244-C-8810	General Design

Group #26 - Ice Tank

262-2421	Stage Grate Locks
263-2422	Drain Spout Pan
263-2423	Drain Spout Application
262-C-5851	Well Trap & Cap - P.F.E.
266-C-8820	Ice Tank Arrgt.
262-C-8825	Floor Pan
263-C-8812	Ice Tank Screens
263-C-8835	Ice Tank Details - Wood
263-C-8831	Plywood Templates
262-C-8963	Bottom Rail Hooks
262-C-8964	Lift Lever Flashing
263-C-8965	Bulkhead Hanger Lift Lever & Details
263-C-8966	Steel Details
262-C-8967	Lift Lever Fulcrum
263-C-8968	Bulkhead Header Lock - Center
263-C-8970	Bulkhead Header Lock Inter. & Side
263-C-8971	Trolley Assembly
263-C-8972	Trolley Track
263-C-8973	Bulkhead Rear Lock & Back Stop
264-C-8974	Bunker Floor Rack & Slat
263-C-8975	Grate Rest and Details
264-C-8976	Ice Tank Steel Details

Group #26 - Ice Tank (Cont'd)

264-C-8977	Grates Full Tank
264-C-8978	Bulkhead Sections & Post
264-C-8980	Ventilator Details
264-C-8979	Grate Sections - Stage Ice
262-C-8997	Bulkhead Sections with Toe Holes
264-C-9049	Application & Details of Open Drip Trough
262-C-9042	Flashings
266-C-9045	Cross Section Showing Ice Tank Conditions
266-C-9046	Cross Section Through Convertible Bulkhead
264-C-9050	Ice Tank Wall Sections

Group #27 - Insulation

273-C-8408	Panel Insulation - Roof
274-C-8423	Floor Insulation
276-C-8819	Insulation Application - Roof
274-C-9051	Longitudinal Cross Sections

Group #28 - Miscellaneous

282-C-6010	Routing Card Board
283-C-6150	Defect Card Holder
282-C-9011	Ownership Plate
283-C-9015	Placard Board
282-C-9041	Bolts and Pins

Group #30 - Painting, Lettering & Numbering

303-C-741	3" Figures
303-C-951	1" and 1½" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters
303-C-3063	9" Letters
303-C-3064	7" Letters
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion

Group #30 - Painting, Lettering & Numbering(Cont'd)

303-C-3915	7" Letters
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3918	7" Letters
303-C-3919	7" Letters
304-C-9861	Lettering on Refrigerator Cars
303-C-10396	Union Pacific Medallion
303-C-10397	Stenciling for U.P. Medallion

Group #32 - Roof

323-C-7596	Hatch Closure Gasket
323-C-8198	Hatch Closure Cover Bracket
323-C-8205	Hatch Closure Operating Lever
322-C-8210	Operating Lever Fulcrum & Bolt
322-C-8211	Hatch Closure Cover Lifter
321-C-8333	Hatch Plug Hinge
321-C-8334	Hatch Plug Hinge Butt
322-C-8337	Hatch Plug Steel Cover
323-C-8354	Hatch Plug & Cover - Details
324-C-8428	Hatch Frame & Carline Assembly
324-C-8816	Plywood Templates - Ceiling
324-C-8829	Solid Steel Roof
326-C-8830	Hatch Frame Arrangement
323-C-8845	Bulkhead Ceiling Beam
324-C-8846	Upper Framing Details - Wood
324-C-8956	Side Plate Angles
323-C-8817	Plywood Templates - Ceiling

Group #34 - Safety Appliances

344-C-5188	Handholds
342-C-7661	Running Board Support
343-C-8350	Sill Step & Brackets
341-C-8351	Running Board Angle
342-C-8372	Brake Step Brackets
343-C-8818	Side & End Ladders with Brackets
342-C-8837	End Handhold Brackets
343-C-8945	Apex Running Board
343-C-8951	Metal Brake Step - Kass

Group #36 - Springs

362-C-6280	Spring Plate - Universal UXS-4
361-C-7823	Truck Springs
362-C-8114	Truck Side Springs

Group #37 - Steel Ends

374-C-8828	Steel End Details
374-C-8832	Steel End Reinforcing Beam
374-C-8836	Application - Dreadnaught Steel End
373-C-8840	Steel End Filler Clips
374-C-9018	Wood Details - End
374-C-9044	Cross Section Through End

Group #42 - Trucks

421-C-8476	Journal Bearing - AAR Emergency
422-C-2566	Journal Bearing Wedge
422-C-4264	Center Pin
421-C-4715	Dust Guard
422-C-6281	Truck Wear Plate & Bolt
422-C-7323	Cotter Pin - Barber Truck
422-C-7509	Spring Plank - 40-Ton Double Truss Truck
421-C-7516	Truck Side Bearing
423-C-8717	Journal Box Lid - Flexo No. 2
422-C-8941	Bolster End Conditions
423-C-8947	Truck Side Frame - Buckeye
423-C-8948	Truck Bolster - Buckeye
423-C-8953	Truck Side Frame - Scullin
423-C-8954	Truck Bolster - Scullin
424-C-9017	Barber Stabilized Truck
422-C-8182	Friction Casting
422-C-6279	Condition of Side Frame at Center
422-C-8992	Truck Arrangement
423-C-8990	Truck Side Frame - Am. Stl. Fdries.
423-C-8991	Truck Bolster - Am. Std. Fdries.

Group #44 - Underframe

443-2261	Body Center Plate
442-2335	Diagonal Brace (Alternate)
442-C-5829	Body Center Plate

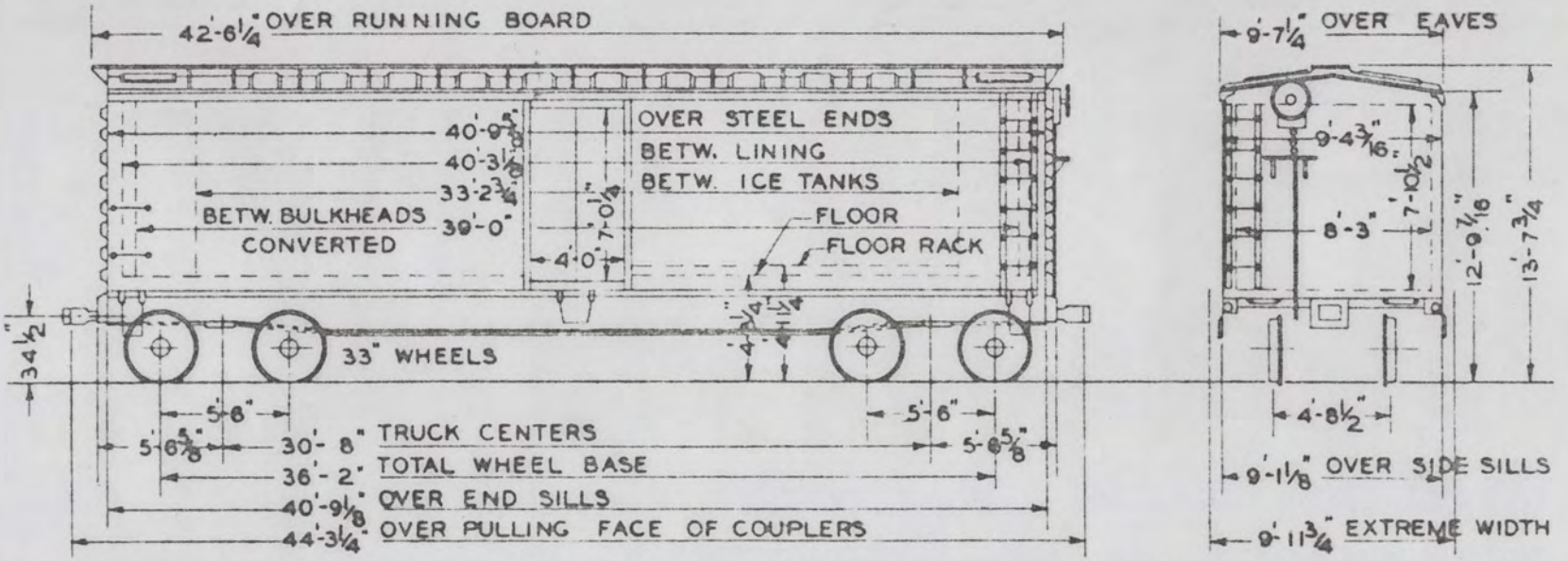
Group #44 - Underframes (Cont'd)

442-C-5830	Side Bearing Brace - Cars 45701-46200
443-C-5832	Bolster Center Filler
444-C-7486	Underframe Arrangement
443-C-8347	Underframe Details
443-C-8349	Underframe Details
446-C-8366	Underframe Details
442-C-8426	Push Pole Pocket & Brace
442-C-9013	Body Side Bearing
442-C-9040	Side Bearing Brace - Cars 46201-46700

CLASS
R-30-19
R-40-19

REFRIGERATOR CAR
70000 LBS. CAPACITY

CAR NO'S
62501-63500



LENGTH INSIDE OF LINING	40'-3 1/8"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-10 1/2"
CU. CAP BETWEEN ICE TANKS ABOVE FLOOR RACK	1988 CU. FT.
CAP. OF BOTH ICE TANKS	11500 LBS.
WT. OF EACH TRUCK	7200 LBS.
LT. WT. OF CAR COMPLETE	58300 LBS.
UNDERFRAME	R.R. DESIGN AND BETTENDORF
SUPERSTRUCTURE	WOOD SHEATHING, STEEL POST & BRACES

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P. F. E. CO.	1000	1944-45

CONVERTED FROM VARIOUS SERIES.
STAGE ICING CAP. 8000 #

REFERENCE DRAWINGS		
GENERAL DESIGN	P.F.E.	SK 1100
INSUL. APPL.	"	1095
ICE TANK	"	1082
UNDERFRAME & AB BRAKE	"	816 & 817
STEEL FRAMING	"	1089
STEEL ENDS	"	1074
STEEL ROOF	"	1128
PAINTING LETTERING & NO.	"	1108

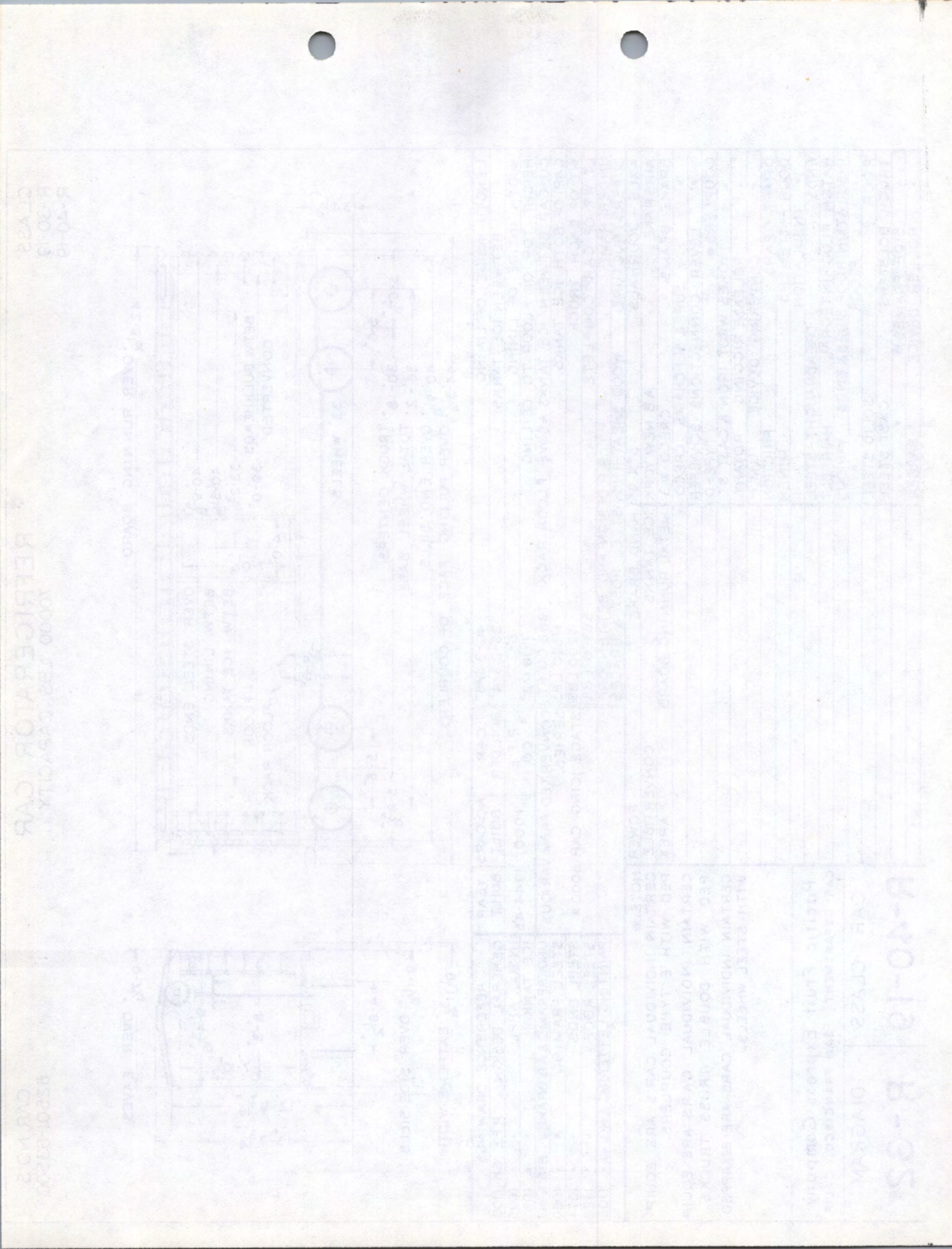
AXLE - JOURNALS	5" X 9"
AIRBRAKE	A B NEW YORK
BRAKE BEAMS	CRECO #3
" SUPP & SLI CHAIRS	CRECO
" LEVER CONNECTIONS	SCHAEFER
COUPLERS *	TYPE-D
" YOKES WROT IRON & CAST ST.	
" RELEASE RIGGING	ROTARY
" CENTERING DEVICE	U.M.P.
DRAFT GEARS	FRICTION
DOOR FASTENERS	MINER
" INSULATION	"
ENDS	DREADNAUGHT-STEEL
HATCH PLUG - INTEGRAL	HAIRFELT
INSULATION ROOF SIDES & ENDS	VARIOUS
" FLOOR	"
ROOF	SOLID STEEL
TRUCK BOLSTERS	CAST STEEL
" SIDE FRAMES *	" "
" ROLLER DEVICE	BARBER

HAND BRAKE	POWER
ICE TANKS	CONVERTIBLE
METAL RUNNING BOARD	APEX

NOTE: *
CERTAIN INDIVIDUAL CAR'S ARE EQUIPPED WITH E TYPE COUPLERS.
CERTAIN INDIVIDUAL CARS ARE EQUIPPED WITH DOUBLE TRUSS TRUCKS.
CERTAIN INDIVIDUAL CARS ARE EQUIPPED WITH STEEL WHEELS.

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-19	R-32



GROUP INDEX TO DRAWINGS FOR P.F.E. REFRIGERATOR CARS CLASS R-30-19 AND R-40-19

Group No. 02 - Heating and Ventilating

026-3289	Fan Application - Preco
026-3290	Fan Application - Equipco

Group No. 11 - Axles and Wheels

111-C-44	Axles 5" x 9"
C-2723	Wheels - Cast Iron

Group No. 12 - Body House

Sk. 1004	J Bolts
Sk. 555	Flashings
Sk. 562	Floor Rack Hinges
Sk. 757	Shoulder Bolts
Sk. 759	Door Hood & Protection Plate
Sk. 760	Threshold Details
Sk. 789	Floor Rack Holder - Equipco
124-3293	Herringbone Floor Rack
Sk. 830	End Construction
Sk. 831	End Frame
Sk. 832	End Construction
Sk. 843	Templates - Side & End Fascias
Sk. 1069	Side Steel Framing
Sk. 1087	Corner Posts
Sk. 1093	Plywood Templates - Lining
Sk. 1092	Plywood Templates - Ceiling
Sk. 1098	Framing Diagram & Details
Sk. 957	Door Framing Details
Sk. 1088	Coping Board & Moulding
Sk. 959	Side & Intermediate Sills
Sk. 1109	Insulation Cleats
Sk. 966	Sheathing Angle & Sub Flooring Angle
Sk. 973	Door Header Tie Strap
Sk. 1110	Framing & Cleating Diagram
Sk. 1094	Flashings
123-2207	Bolt Head Locks
122-C-967	Templates for Roofing, Flooring & Siding

Group No. 15 - Brake Arrangement

Sk. 816	Details & Application of AB Brakes (R-30-11, 12 & 14)
Sk. 817	Details & Application of AB Brakes (R-30-12 & R-40-2)
Sk. 1112	Hand Brake Arrangement

Group No. 16 - Brake Details

Sk. 528	Retainer Pipe Clamp
Sk. 537	Brake Hanger "U" Type
Sk. 570	Hand Brake Rod Guides
Sk. 589	Body Bolter Diaphragm
Sk. 616	Forged Pins
Sk. 766	Retainer Pipe Bracket
Sk. 885	Bell Crank Bracket
Sk. 970	Angle Cock Support
Sk. 1010	AB Valve & Reservoir Supports (Alternate)
162-C-3834	Brake Beam Support & Bracket
161-C-4509	Brake Hanger (Loop Type)
161-C-4520	Hand Brake Connecting Chain
162-C-4904	Brake Hanger Cotter
161-C-5115	Bell Crank Chain
163-C-5359	Cylinder & Floating Lever
163-C-5808	Air Brake Details
162-C-5865	Brake Hanger Bracket Wearing Plate
162-C-5867	Brake Beam Support & Sliding Chair
162-C-5883	Brake Shoes (Duplane)
162-C-6443	Brake Hanger Bracket Wear Plate
161-C-8371	Badge Plate
162-C-10172	Adjustable Type Chair (Creco) 4 point Support
162-C-10416	No. 18 Positive Brake Beam
162-2667	**Brake Beam Support Chairs - Creco**

Group No. 18 - Doors, Gates & Fixtures

Sk. 1096	Side Door
183-C-4869	Side Door Fastener Details

Group No. 20 - Draft Gears

Sk. 948	Coupler Release Rigging Imperial Type B
Sk. 949	Imperial Type B Coupler Release Details
Sk. 950	Imperial Bracket Detail
Sk. 951	Imperial Bracket Detail
201-C-4314	Draft Key Retainer

Group No. 24 - General Design

Sk. 1100	General Design

Group No. 26 - Ice Tanks

Sk. 517	Drip Trough Bottom Pan
Sk. 1102	Ceiling Beam (Alternate)
Sk. 1090	Floor Pan
Sk. 924	Bulkhead Side Lock
Sk. 1103	Ice Tank Details - Wood
Sk. 1094	Flashings
Sk. 1082	Ice Tank
Sk. 983	Ice Tank Details
Sk. 984	Ice Tank Details
Sk. 985	Grate Section
Sk. 986	Ice Tank Details
Sk. 987	Ice Tank Details
Sk. 988	Side Screen Ceiling Lock Assembly
Sk. 1075	Ceiling Beam
Sk. 991	Side Wall Roller Bolt
Sk. 993	Bulkhead Header Lock
Sk. 994	Ice Tank Screens
Sk. 995	Grate Bar Lock
Sk. 996	Application of Locks at Stage Ice & Full Tank Grate
Sk. 997	Application of Locks at Stage Ice & Full Tank Grate
Sk. 998	Application of B.H. Lock
Sk. 999	Application of Side Screen & F.R. Lock
Sk. 1001	Bulkhead Header Lock Application
Sk. 1002	Grate Bar Lock - Full Tank Grate
Sk. 1003	Bulkhead Lock Flashing

Group No. 27 - Insulation

Sk. 1095	Insulation Application
Sk. 954	Panel Insulation in Roof
Sk. 971	Fiberglass in Floor

Group No. 28 - Miscellaneous

282-C-5960	Placard Card Board
282-C-6150	Defect Card Holder - Real
282-C-9567	Defect Card Holder - Cheeper

Group No. 30 - Painting, Lettering & Numbering

304-2100	Painting, Lettering and Numbering
303-C-741	3" Figures

Group No. 30 - Painting, Lettering & Numbering (Cont'd)

303-C-951	1" and 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3918	7" Letters
303-C-3919	7" Letters
303-C-10396	Union Pacific Medallion
303-C-10397	Stenciling for U.P. Medallion
303-2269	Stenciling - Roof

Group No. 32 - Roof

Sk. 751	Hatch Details - Forged
Sk. 763	Hatch Plug Cover Plate
Sk. 769	Hatch Hinges
Sk. 780	Hatch Cover Bracket & Seal Plate
Sk. 793	Hatch Cover Bracket (Holland)
Sk. 794	Hatch Closure Bracket (Holland)
Sk. 1092	Plywood Templates - Ceiling
Sk. 1128	Murphy Solid Steel Roof
Sk. 1129	Murphy Solid Steel Roof - Details
Sk. 946	Hatch Carline & Hatch Frame Assembly
Sk. 947	Eaves & Corner Roof Supports
323-2390	Hatch Plug Framing
Sk. 1006	Hatchway Arrangement (Equipco)
Sk. 1007	Hatchway Arrangement (Holland)
Sk. 1101	Upper Framing & Hatch Framing
Sk. 1105	Hatchway Lining

Group No. 34 - Safety Appliances

Sk. 1086	Side & End Ladders
Sk. 868	Roof Handholds
Sk. 975	Brake Step

Group No. 34 - Safety Appliances (Cont'd)

Sk. 1115	Metal Running Board - AR
341-C-4939	Sill Steps
344-C-5188	Handholds

Group No. 36 - Springs

361-C-63	Truck Spring
362-C-6966	Spring Plates

Group No. 37 - Steel Ends

Sk. 1074	Dreadnaught Steel End Arrangement
Sk. 1073	Dreadnaught Steel End Details
Sk. 1089	Steel End Reinforcement Beam
Sk. 1104	Steel End Filler Clips
Sk. 905	End Handhold Brackets
Sk. 1099	Steel End Fillers & End Plate

Group No. 42 - Trucks

Sk. 482	Spring Planks (with Bettendorf)
Sk. 575	Spring Planks (AAR Type)
Sk. 700	Column Guide Wearing Channels
423-2247	Packing Retainer - Holdrite
422-C-7508	Truck Assembly
422-C-7509	Spring Plank
423-C-7510	Truck Side Bearing
421-C-7516	Truck Side Bearing Block
423-C-7520	Truck Bolster
423-C-7521	Truck Side Frames
422-C-9473	Journal Box Lid - Flexo No. 2
423-C-9875	Journal Box Lid - Symington

Group No. 44 - Underframe

Sk. 421	Bolster Top Cover Plate
Sk. 422	Bolster Bottom Cover Plate
Sk. 546	Reinforced Body Bolster
Sk. 589	Body Bolster Diaphragm
Sk. 804	Center Sill Fracture
Sk. 865	Push Pole Pocket

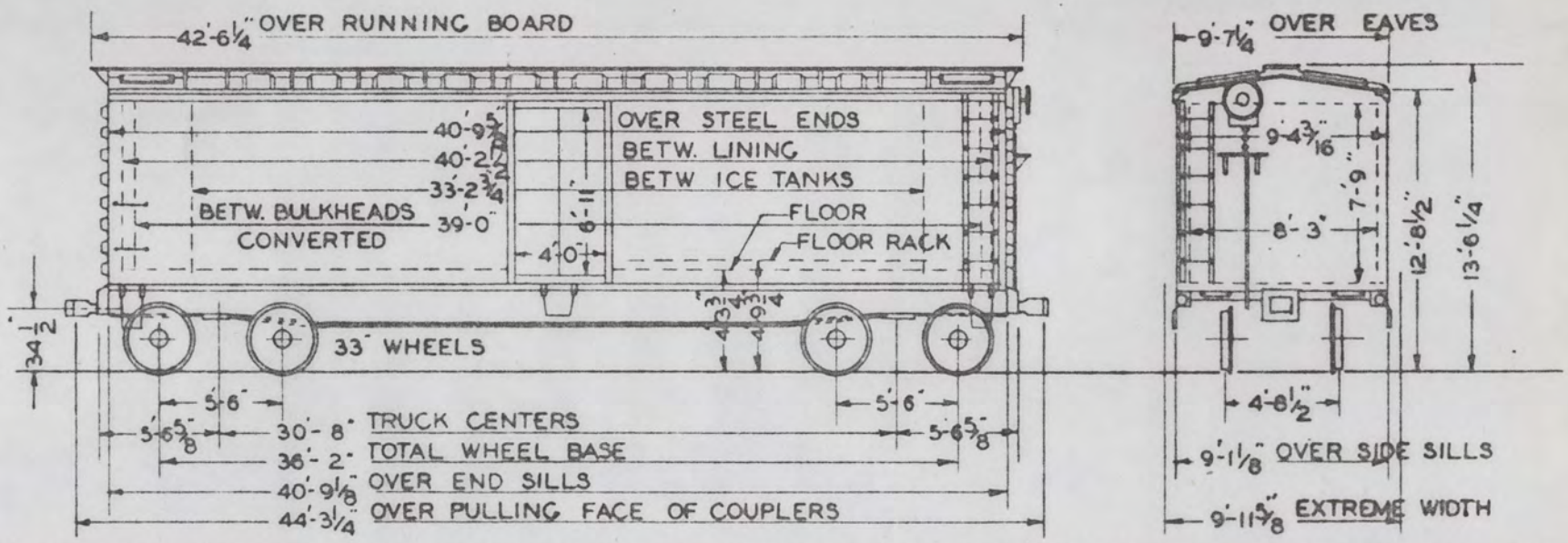
Group No. 44 - Underframe (Cont'd.)

Sk. 890	Bolster Brace
Sk. 952	Underframe Details
Sk. 970	Angle Cock Support
C-2273	Underframe Details (R-30-12 & 13)
C-2340	Underframe (R-30-11)
C-2341	Underframe Details (R-30-11)
C-2551	Body Side Bearing
C-2677	Underframe (R-30-13)
C-2772	Underframe (R-30-12)
C-3174	Underframe Details (R-30-13)
C-3525	Underframe (R-30-13)
C-3696	Underframe Details (R-30-14)
C-3700	Underframe (R-30-14)
C-3701	Underframe Details (R-30-14)
C-4471	Underframe (R-40-2)
446-C-4472	Underframe Details (R-40-2)
441-C-7512	Body Center Plate
441-C-7515	Body Center Plate
444-2655	Reinforced Body Bolster (R-30-12 & 14)
444-3268	Reinforced Body Bolster (R-30-13 & R-40-2)

CLASS
R-30-12-18
R-30-13-18
R-30-14-18
R-40-2-18

REFRIGERATOR CAR
70000 LBS. CAPACITY

CAR NO'S
60001-62500



LENGTH INSIDE OF LINING	40'-2 1/2"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-9"
CU. CAP. BETWEEN ICE TANKS ABOVE FLOOR RACK	1988 CU.FT.
CAP OF BOTH ICE TANKS	11500 LBS
WT. OF EACH TRUCK	6600 LBS
LT. WT. OF CAR COMPLETE	57700 LBS.
UNDERFRAME	BETTENDORF
SUPERSTRUCTURE	WOOD SHEATHING STEEL POST & BRACES

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P.F.E. CO.	2500	1942-43

REFERENCE DRAWINGS
GENERAL DESIGN P.F.E. SK. 1000

AXLE - JOURNALS	5" X 9"
AIRBRAKE	A-B
BRAKE BEAMS	CRECO #3
" SUPP. & SLI. CHAIRS	CRECO
" LEVER CONNECTIONS	SCHAEFER
COUPLERS	TYPE-D
" YOKES	WROT IRON & CAST ST.
" RELEASE RIGGING	ROTARY
" CENTERING DEVICE	U.M.P.
DRAFT GEARS	FRICTION
DOOR FASTENERS	MINER
" INSULATION	"
ENDS	DREADNAUGHT-STEEL
HATCH PLUG	HAIRFELT
INSULATION ROOF SIDES & ENDS	VARIOUS
" FLOOR	"
ROOF	SOLID STEEL
TRUCK BOLSTERS	CAST STEEL
" SIDE FRAMES	" "
" ROLLER DEVICE	BARBER
WHEELS	CAST IRON 33"

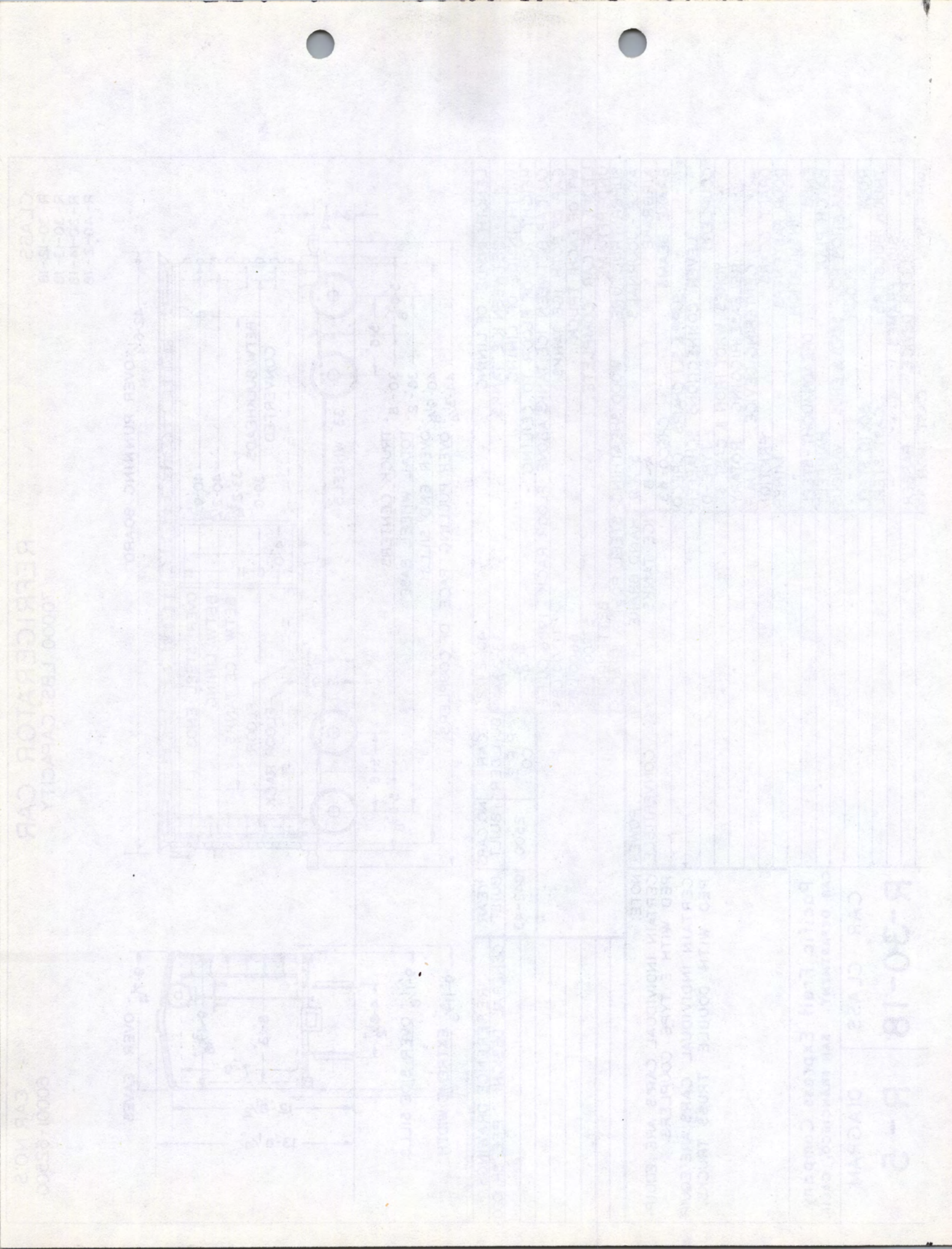
HAND BRAKE	POWER
ICE TANKS	CONVERTIBLE

NOTE:
CERTAIN INDIVIDUAL CAR'S ARE EQUIPPED WITH E TYPE COUPLERS.

CERTAIN INDIVIDUAL CARS ARE EQUIPPED WITH DOUBLE TRUSS TRUCKS.

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-30-18	R-5



GROUP INDEX TO DRAWINGS FOR P.F.E. REFRIGERATOR CARS CLASS R-30-18 AND R-40-18

Group 02 - Heating & Ventilating

262-C-8812	Ice Tank Screens
262-C-8963	Bottom Rail Hooks
262-C-8964	Lift Lever Flashing
263-C-8965	Bulkhead Hanger Lift Lever
263-C-8966	Ice Tank Steel Details
262-C-8967	Lift Lever Fulcrum
263-C-8968	Bulkhead Header Lock - Center
263-C-8970	Bulkhead Header Lock - Inter. & Side
263-C-8971	Trolley Assembly
263-C-8972	Trolley Track
263-C-8973	Bulkhead Rear Lock & Back Stop
261-C-8974	Bunker Floor Rack & Slat
263-C-8975	Grate Rest & Details
264-C-8976	Steel Details
264-C-8977	Grates - Full Tank
264-C-8978	Bulkhead Sections & Posts
264-C-8979	Grate Section - Stage Ice
264-C-8980	Ventilator Details
262-C-8997	Bulkhead Section with Toe Holds
266-C-8820	Ice Tank Arrangement
024 - 2930	FAN APPLICATION - AA 19

Group 11 - Axles and Wheels

111-C-44	Axles 5" x 9"
C-2723	Wheels - Cast Iron

Group 12 - Body House

Sk. 555	Flashings
" 562	Floor Rack Hinges
" 757	Shoulder Bolts
" 759	Door Hood & Protection Plate
" 760	Threshold Details
" 789	Floor Rack Holder - Equipco
124-3071	Herringbone Floor Rack
" 830	End Construction
" 831	End Frame
" 832	End Construction
" 843	Templates - Side & End Fascias
" 852	Side & End Steel Framing
" 866	Corner Posts
" 874	Plywood Templates
" 875	Plywood Templates - Ceiling
" 955	Framing Diagram & Details
" 957	Door Framing Details
" 958	Coping Board & Fillers
" 959	Side & Intermediate Sills
" 965	Insulation Cleats
" 966	Sheathing Angle & Sub Flooring Angle
" 973	Door Header Tie Strap
" 979	Framing & Cleating Diagram
" 981	Flashings
123-2207	Bolt Head Locks
122-C-967	Templates for Roofing, Flooring & Siding

Group 15 - Brake Arrangement

Sk. 816	Details & Application of AB Brakes(R-30-11, 12 & 14)
" 817	Details & Application of AB Brakes(R-30-12 & R-40-2)
" 974	Hand Brake Arrangement

Group 16 - Brake Details

Sk. 528	Retainer Pipe Clamp
" 537	Brake Hanger "U" Type
" 570	Hand Brake Rod Guides
" 616	Forged Pins
" 766	Retainer Pipe Bracket
" 885	Bell Crank Bracket

Group 16 - Brake Details (Cont'd)

Sk. 970	Angle Cock Support
Sk. 1010	AB Valve & Reservoir Supports (Alternate)
162-C-3834	Brake Beam Support & Bracket
161-C-4509	Brake Hanger (Loop Type)
161-C-4520	Hand Brake Connecting Chain
162-C-4904	Brake Hanger Cotter
161-C-5115	Bell Crank Chain
163-C-5359	Cylinder & Floating Lever
162-C-5360	Badge Plate
163-C-5808	Air Brake Details
162-C-5865	Brake Hanger Bracket Wearing Plate
162-C-5867	Brake Beam Support & Sliding Chair
162-C-5883	Brake Shoes (Duplane)
162-C-6443	Brake Hanger Bracket Wear Plate
162-C-10172	Adjustable Type Chair (Creco) 4 point Support
162-C-10416	No. 18 Positive Brake Beam
162-2667	Brake Beam Support Chairs - Creco

Group 18 - Doors, Gates & Fixtures

Sk. 960	Side Door
183-C-4869	Side Door Fastener Details

Group 20 - Draft Gears

Sk. 948	Coupler Release Rigging Imperial Type B
Sk. 949	Imperial Type B Coupler Release Details
Sk. 950	Imperial Bracket Detail
Sk. 951	Imperial Bracket Detail
201-C-4314	Draft Key Retainer

Group 24 - General Design

Sk. 1000	General Design

Group 26 - Ice Tanks

Sk. 517	Drip Trough Bottom Pan
Sk. 855	Ceiling Beam
Sk. 871	Floor Pan
Sk. 924	Bulkhead Side Lock
Sk. 972	Ice Tank Details - Wood
Sk. 981	Flashings
Sk. 982	Ice Tank
Sk. 983	Ice Tank Details
Sk. 984	Ice Tank Details
Sk. 985	Grate Section

Group 26 - Ice Tanks (Cont'd)

Sk. 986	Ice Tank Details
" 987	Ice Tank Details
" 988	Side Screen Ceiling Lock Assembly
" 989	Ceiling Beam (Alternate)
" 991	Side Wall Roller Bolt
" 993	Bulkhead Header Lock
" 994	Ice Tank Screens
" 995	Grate Bar Lock
" 996	Application of Locks at Stage Ice & Full Tank Grate
" 997	Application of Locks at Stage Ice & Full Tank Grate
" 998	Application of B.H. Lock
" 999	Application of Side Screen & F.R. Lock
" 1001	Bulkhead Header Lock Application
" 1002	Grate Bar Lock - Full Tank Grate
" 1003	Bulkhead Lock Flashing
262-2166	Louver Panel (at Fan)
264-3059	Stationery Bulkhead Details

Group 27 - Insulation

Sk. 869	Insulation Application
" 954	Panel Insulation in Roof
" 971	Fiberglass in Floor

Group 28 - Miscellaneous

282-C-596	Placard Card Board
282-C-6150	Defect Card Holder - Real
282-C-9567	Defect Card Holder - Cheeper

Group 30 - Painting, Lettering & Numbering

304-2100	Painting, Lettering and Numbering
303-C-741	3" Figures
303-C-951	1" and 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures

Group 30 - Painting, Lettering & Numbering

303-C-3072	Southern Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3918	7" Letters
303-C-3919	7" Letters
303-C-10396	Union Pacific Medallion
303-C-10397	Stenciling for U.P. Medallion
303-2269	Stenciling - Roof

Group 32 - Roof

Sk. 751	Hatch Details - Forged
" 2228	Hatch Plug Cover Plate
" 780	Hatch Cover Bracket & Seal Plate
" 793	Hatch Cover Bracket (Holland)
" 794	Hatch Closure Bracket (Holland)
" 875	Plywood Templates - Ceiling
" 945	Murphy Solid Steel Roof
" 945-1	Murphy Solid Steel Roof - Details
" 946	Hatch Carline & Hatch Frame Assembly
" 947	Eaves & Corner Roof Supports
" 1005	Hatch Plug Framing
" 1006	Hatchway Arrangement (Equipco)
" 1007	Hatchway Arrangement (Holland)

Group 34 - Safety Appliances

Sk. 867	Side & End Ladders
" 868	Roof Handholds
" 975	Brake Step
" 980	Running Board & Details
341-C-4939	Sill Steps
344-C-5188	Handholds

Group 36 - Springs

361-C-63	Truck Spring
362-C-6966	Spring Plates

Group 37 - Steel Ends

Sk. 943	Dreadnaught Steel End Arrangement
" 944	Dreadnaught Steel End Details

Group 37 - Steel Ends (Cont'd)

Sk. 968	Steel End Reinforcement Beam
" 976	Steel End Filler Clips
" 905	End Handhold Brackets

Group 42 - Trucks

Sk. 482	Spring Planks (with Bettendorf)
" 575	Spring Planks (AAR Type)
" 700	Column Guide Wearing Channels
423-2247	Packing Retainer - Holdrite
422-C-7508	Truck Assembly
422-C-7509	Spring Plank
423-C-7510	Truck Side Bearing
421-C-7516	Truck Side Bearing Block
423-C-7520	Truck Bolster
423-C-7521	Truck Side Frames
422-C-9473	Journal Box Lid - Flexo No. 2
423-C-9875	Journal Box Lid - Symington

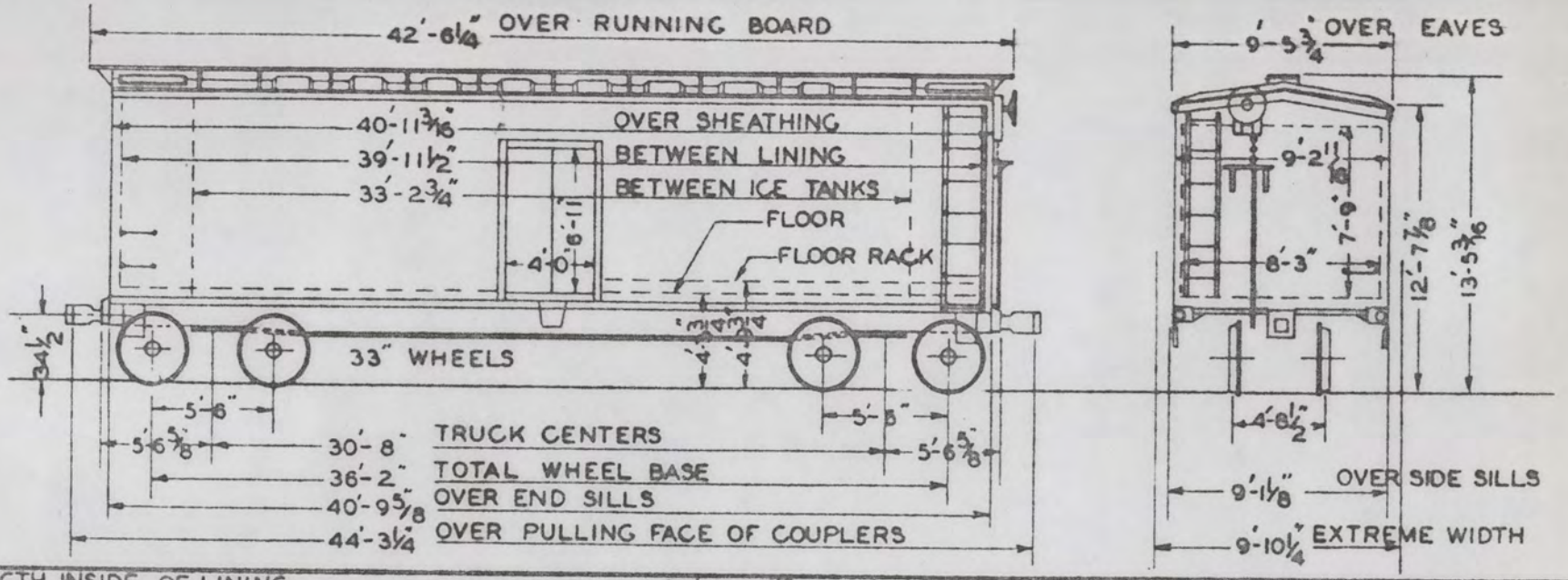
Group 44 - Underframe

Sk. 546	Reinforced Body Bolster
" 589	Body Bolster Diaphragm
" 804	Center Sill Fracture
" 865	Push Pole Pocket
" 890	Bolster Brace
" 952	Underframe Details
" 970	Angle Cock Support
C-2273	Underframe Details (R-30-12&13)
C-2340	Underframe R-30-11)
C-2341	Underframe Details (R-30-11)
C-2551	Body Side Bearing
C-2677	Underframe (R-30-13)
C-2772	Underframe (R-30-12)
C-3174	Underframe Details (R-30-13)
C-3525	Underframe (R-30-13)
C-3696	Underframe Details (R-30-14)
C-3700	Underframe (R-30-14)
C-3701	Underframe Details (R-30-14)
C-4471	Underframe (R-40-2)
446-C-4472	Underframe Details (R-40-2)
441-C-7512	Body Center Plate
441-C-7515	Body Center Plate
C-1469	Body Center Plate

CLASS
R-30-12-16
R-30-13-16
R-30-14-16
R-40-2-16

REFRIGERATOR CAR
70000 LBS. CAPACITY

CAR NO'S
73001-76554



LENGTH INSIDE OF LINING	39'-11 1/2"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-9"
CU. CAP. BETWEEN ICE TANKS ABOVE FLOOR RACK	1988 CU.FT.
CAP. OF BOTH ICE TANKS	11500 LBS.
WT. OF EACH TRUCK	6600 LBS.
LT. WT. OF CAR COMPLETE	53900 LBS.
UNDERFRAME	BETTENDORF
SUPERSTRUCTURE	WOOD SHEATHING, STEEL POST & BRACES
AXLE - JOURNALS	5" X 9"
AIRBRAKE	KC-1012
BRAKE BEAMS	CRECO #3
" " SUPP. & SLI. CHAIRS	CRECO
" LEVER CONNECTIONS	SCHAEFER
COUPLERS	TYPE-D
" YOKES	WROT IRON & CAST ST.
" RELEASE RIGGING	ROTARY
" CENTERING DEVICE	U.M.P.
DRAFT GEARS	FRICTION
DOOR FASTENERS	MINER
" INSULATION	"
HATCH PLUG	HAIRFELT
INSULATION ROOF SIDES & ENDS	VARIOUS
" FLOOR	"
ROOF	SOLID STEEL
TRUCK BOLSTERS	CAST STEEL
" SIDE FRAMES	" "
" ROLLER DEVICE	BARBER
WHEELS	CAST IRON 33
HAND BRAKE	POWER

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P. F. E. CO.	3554	1940-41-42

REFERENCE DRAWINGS
GENERAL DESIGN P.F.E. SK 990

NOTE:
76005 TO 76504 ARE EQUIPPED WITH PRECO AIR CIRCULATING FANS.

73713. 75643-75652 ARE EQUIPPED WITH EQUIPCO CONVERTIBLE ICE BUNKERS.

74196-76554 HAVE AB BRAKES APPLIED.

CERTAIN INDIVIDUAL CARS ARE EQUIPPED WITH DOUBLE TRUSS TRUCKS.

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-30-16	R-4

GROUP INDEX TO DRAWINGS FOR P.F.E. REFRIGERATOR CARS CLASS R-40-16 AND R-40-16

Group #02 - Heating & Ventilating

026-3275	Fan Application - Equipco
026-3285	Fan Application - Preco
026-3326	Fan Drive Application - Equipco
026-3327	Fan Panel Assembly - Equipco
020-3328	Pre-Cool Motor Support Brkt. - Equipco
020-3329	Fan Lift Lever Rest - Equipco
026-3330	Fan Panel Arrangement - Equipco
021-3331	Fan Lift Lever - Equipco
020-3332	Cover Plate - Equipco
020-3334	Fan Lever Hook - Equipco
02 -3335	Side Sill Anchor Plate - Equipco
02 -3336	Center Sill Bearing Assembly - Equipco
02 -3337	Fuse Box Assembly - Equipco
027-3338	Fan Wiring Diagram - Equipco
023-3339	Side Sill Bearing Assembly - Equipco
023-3340	Generator Assembly - Equipco
025-3341	Fan Drive Support - Equipco

Rev. 1-24-54

Group 11 - Axles and Wheels

111-C-44	Axles 5" x 9"
C-2723	Wheels - Cast Iron

Group 12 - Body House

Sk. 476	"J" Bolts
Sk. 547	Corner Bands
Sk. 549	Body Tie Rods
Sk. 550	Body Tie Straps
Sk. 555	Flashings
Sk. 562	Floor Rack Hinges
Sk. 590	Sheathing Angle
Sk. 592	Floor Rack Stop
Sk. 682	End Post Brace
Sk. 738	Side & End Steel Framing
Sk. 739	Framing Diagram
Sk. 742	Side, Intermediate & End Sills
Sk. 744	Wood Framing Details - Side & End
Sk. 747	Door Framing Details
Sk. 754	Insulation Cleating
Sk. 755	Coping Board & Fillers
Sk. 756	End Sill Brace
Sk. 757	Shoulder Bolt
Sk. 758	End Sheathing Strap
Sk. 759	Door Hood & Protection Plate
Sk. 760	Threshold Details
Sk. 767	Door Header Brace
Sk. 768	Plywood Templates
Sk. 786	Sub Flooring Angle
Sk. 789	Floor Rack Holder - Equipco
Sk. 803	Plywood Templates

Group 12 - Body House (Continued)

Sk. 811	Insulation Cleat
124-3270	Herringbone Floor Rack
Sk. 820	Bulkhead Post Foot
Sk. 821	Plywood Templates
Sk. 843	Templates - Side & End Fascias
Sk. 844	Herringbone Floor Rack (Fan Cars)
Sk. 845	Door Framing (Fan Cars)
Sk. 848	Side Sub-Sill (Fan Cars)
Sk. 849	Door Threshold Strip (Fan Cars)
Sk. 854	Coping Board & Filler (Fan Cars)
Sk. 857	Side & End Framing - Wood (Fan Cars)
Sk. 858	Insulation Cleating (Fan Cars)
Sk. 860	Door Hood & Protection Plate (Fan Cars)
Sk. 861	Sheathing Bands (Fan Cars)
Sk. 862	Floor Rack Extension (Fan Cars)
123-2207	Bolt Head Locks
123-2272	End Cross Bracing
121-C-4539	Floor Rack Holder - Equipco
122-C-967	Templates for Roofing, Flooring & Siding
122-3346	End Reinforcing Beam
121-3347	Flashing - Reinf. Beam

Group 15 - Brake Arrangement

Sk. 586	Air Brake Piping (R-30-11, 12 & 14)
Sk. 587	Air Brake Piping (R-30-13)
Sk. 746	Hand Brake Arrangement - Ajax
Sk. 781	Hand Brake Arrangement - Ureco
Sk. 782	Hand Brake Arrangement - Universal
Sk. 783	Hand Brake Arrangement - Equipco
Sk. 784	Hand Brake Arrangement - Miner
Sk. 785	Hand Brake Arrangement - Klasing
Sk. 816	Details & Application of AB Brakes(R-30-11, 12 & 14)
Sk. 817	Details & Application of AB Brakes(R-30-12 & R-40-2)
154-C-4475	Air Brake Piping (R-40-2)

Group 16 - Brake Details

Sk. 528	Retainer Pipe Clamp
Sk. 537	Brake Hanger "U" Type
Sk. 570	Hand Brake Rod Guides
Sk. 581	Angle Cock Support
Sk. 766	Retainer Pipe Bracket
Sk. 616	Forged Pins
162-C-3834	Brake Beam Support & Bracket

Group 16 - Brake Details (Continued)

161-C-4509	Brake Hanger (Loop Type)
161-C-4520	Hand Brake Connecting Chain
162-C-4904	Brake Hanger Cotter
161-C-5115	Bell Crank Chain
161-C-5229	Bell Crank Bracket
163-C-5359	Cylinder & Floating Lever
162-C-5360	Badge Plate
162-C-5865	Brake Hanger Bracket Wearing Plate
162-C-5867	Brake Beam Support & Sliding Chair
162-C-5883	Brake Shoes (Duplane)
162-C-6443	Brake Hanger Bracket Wear Plate
162-C-10172	Adjustable Type Chair (Creco) 4 point Support
162-C-10416	No. 18 Positive Brake Beam

Group 18 - Doors, Gates & Fixtures

Sk. 569	Side Door
183-C-4869	Side Door Fastener Details

Group 20 - Draft Gears

Sk. 573	Coupler Release Rigging Imperial Type B
201-C-4314	Draft Key Retainer

Group 24 - General Design

Sk. 990	General Design

Group 26 - Ice Tanks

Sk. 517	Drip Trough Bottom Pan
Sk. 530	Bulkhead Corner Strip
Sk. 554	Ice Grate
Sk. 554-1	Ice Grate (Modified)
Sk. 574	Floor Pan
Sk. 718	Ice Grate
Sk. 727	Post Feet
Sk. 728	Ice Tank Screens
264-3269	Ice Tank
263-3271	Ice Tank Details
Sk. 805	Details & Application of Bottom Pan
Sk. 856	Ice Tank Details
Sk. 1147	Hinged Stage Ice Grate Arrangement

Group 26 - Ice Tanks (Continued)

Sk. 1201	Modified Screens & Supports
264-2373	Hinged Stage Ice Grate Arrangement
261-3320	Bulkhead Grate Lock

Group 27 - Insulation

Sk. 801	Fiberglass in Roof
275-3344	Insulation Application - Walls
125-3355	Insulation Application - Floor

Group 28 - Miscellaneous

282-2884	Defect Card Holder - Apex

Group 30 - Painting, Lettering & Numbering

304-2100	Painting, Lettering and Numbering
303-C-741	3" Figures
303-C-951	1" and 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3918	7" Letters
303-C-3919	7" Letters
303-C-10396	Union Pacific Medallion
303-C-10397	Stenciling for U.P. Medallion
303-2269	Stenciling - Roof
305-3304	Stencil - Fan Name Plate - Equipco

Group 32 - Roof

Sk. 740	Hatchway Arrangement (Equipco)
Sk. 741	Hatch Framing
Sk. 748	Hatch Frame Details
Sk. 749	Upper Framing
Sk. 750	Hatchway Lining
Sk. 751	Hatch Details - Forged
Sk. 763	Hatch Plug Cover Plate
Sk. 765	Hatch Plug Framing
Sk. 768	Plywood Templates - Ceiling
Sk. 769	Hatch Hinges
Sk. 771	Hatch Cover Lifter (Equipco)
Sk. 773	Hatch Cover Bracket (Equipco)
Sk. 774	Operating Lever Fulcrum (Equipco)
Sk. 775	Hatch Closure Gasket (Equipco)
Sk. 777	Operating Lever Fulcrum (Equipco)
Sk. 779	Operating Lever (Equipco)
Sk. 780	Hatch Cover Bracket & Seal Pin
Sk. 787	Murphy Solid Steel Roof
Sk. 788	Hatch Carline & Hatch Frame Assembly
Sk. 790	Operating Lever (Holland)
Sk. 791	Lever Extension (Holland)
Sk. 792	Body Bracket (Holland)
Sk. 793	Hatch Cover Bracket (Holland)
Sk. 794	Hatch Closure Gasket(Holland)
Sk. 795	Eaves Roof Support & End Roof Angle
Sk. 797	Hatchway Arrangement (Holland)
Sk. 798	Lock Slide & Key (Holland)
Sk. 799	Ventilating Seal Pin (Holland)
Sk. 842	Hatch Frame Details
Sk. 846	Hatchway Arrangement
Sk. 863	Hatchway Lining

Group 34 - Safety Appliances

Sk. 580	Brake Step
Sk. 745	Ladder & Brackets
Sk. 752	Roof Handhold
Sk. 753	Running Board & Details
341-C-4939	Sill Steps
344-C-5188	Handholds

Group 36 - Springs

361-C-63	Truck Spring
362-C-6966	Spring Plates

Group 42 - Trucks

Sk. 482	Spring Planks (with Bettendorf)
Sk. 575	Spring Planks (A.A.R. Type)
Sk. 700	Column Guide Wearing Channels
423-2247	Packing Retainers - Holdrite
422-C-5485	Journal Box Lid & Pin
422-C-5623	Journal Box Lid & Pin
422-C-5924	Journal Box Lid & Pin
422-C-6465	Journal Box Lid & Pin
422-C-7509	Spring Planks
423-C-7520	Truck Bolster
423-C-7521	Truck Sides

Group 44 - Underframe

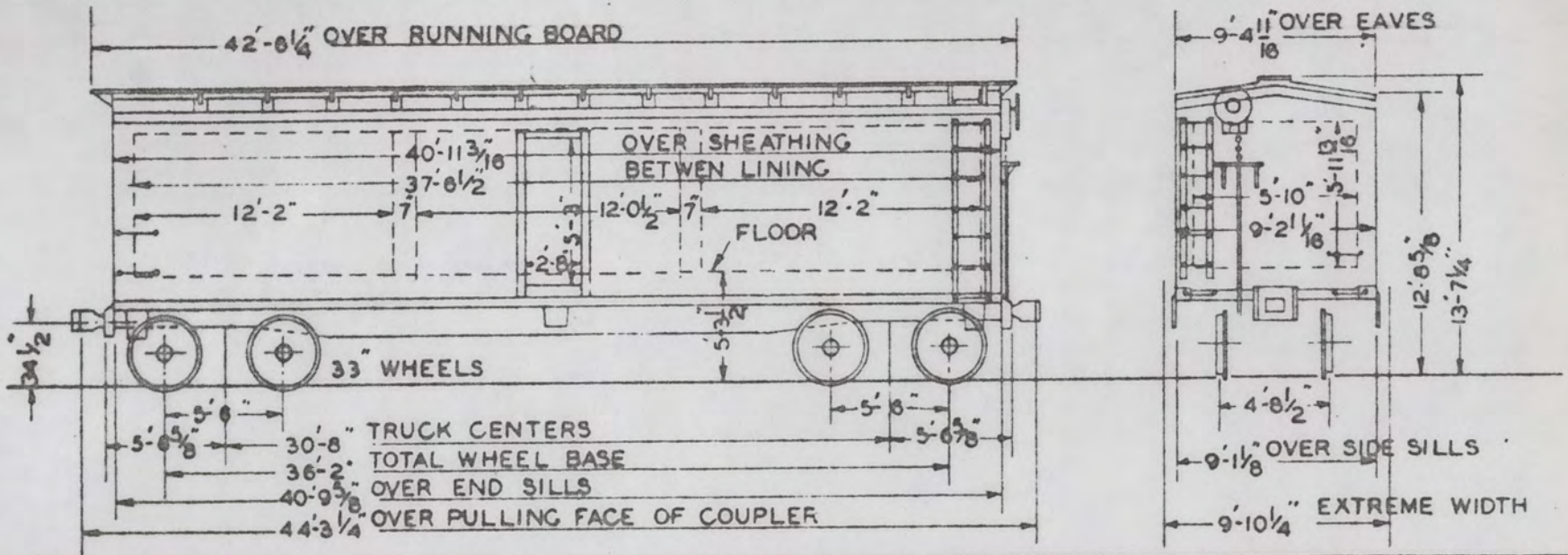
Sk. 421	Bolster Top Cover Plate
Sk. 422	Bolster Bottom Cover Plate
Sk. 527	Side Sill Anchor
Sk. 542	Push Pole Pocket
Sk. 589	Body Bolster Diaphragm
Sk. 591	Spring Plank
Sk. 593	Application of Diagonal Braces
Sk. 743	Steel Side & End Sills
Sk. 804	Center Sill Fracture
C-1469	Body Center Plate
C-2273	Underframe Details (R-30-12&13)
C-2340	Underframe (R-30-11)
C-2341	Underframe Details (R-30-11)
C-2551	Body Side Bearing
C-2677	Underframe (R-30-13)
C-2772	Underframe (R-30-12)
C-3174	Underframe Details (R-30-13&14)
C-3525	Underframe (R-30-13)
C-3696	Underframe Details (R-30-14)
C-3700	Underframe (R-30-14)
C-3701	Underframe Details (R-30-14)
C-4471	Underframe (R-40-2)
446-C-4472	Underframe Details (R-40-2)
441-C-7512	Body Center Plate
444-2655	Reinforced Body Bolster R-30-12 & 14)
444-3268	Reinforced Body Bolster (R-30-13 & 40-2)

R-30-16 & R-40-16
Index to Drawings

CLASS
R-30-12-15

REFRIGERATOR CAR
70 000 LBS. CAPACITY
DRY ICE SERVICE

CAR NO'S
99001 - 99050



LENGTH INSIDE OF LINING	37'-6 1/2"
" " " " END COMPARTMENTS	12'-2"
WIDTH INSIDE OF LINING	5'-10"
HEIGHT TOP OF FLOOR TO CEILING	5'-11 13/16"
CU. CAR EACH END COMPARTMENT	424 CU. FT.
CENTER COMPARTMENT NOT USED FOR LOADING	
WT. OF EACH TRUCK	6780 LBS.
LT. WT. OF CAR - COMPLETE	65000 LBS.
UNDERFRAME	BETTENDORF
SUPERSTRUCTURE	WOOD SHEATHING - POST & BRACES
AXLE - JOURNALS	5" X 9"
AIR BRAKE	K C - 1012
BRAKE BEAM - SUPP. & SLI. CHAIRS	CRECO #3
" LEVER CONNECTIONS	SCHAEFER
COUPLERS	TYPE - E
" YOKES	CAST STEEL
" RELEASE RIGGING	ROTARY
" CENTERING DEVICE	IMPERIAL
DRAFT GEARS	FRICTION
DOOR FASTENERS	
" INSULATION	
HAND BRAKE	POWER
INSULATION ROOF S. & E. WALLS	
" FLOOR	
ROOF	FLEXIBLE OUTSIDE METAL
TRUCK BOLSTERS	CAST STEEL
" SIDE FRAMES	" "
" ROLLER DEVICE	BARBER
WHEELS	33"

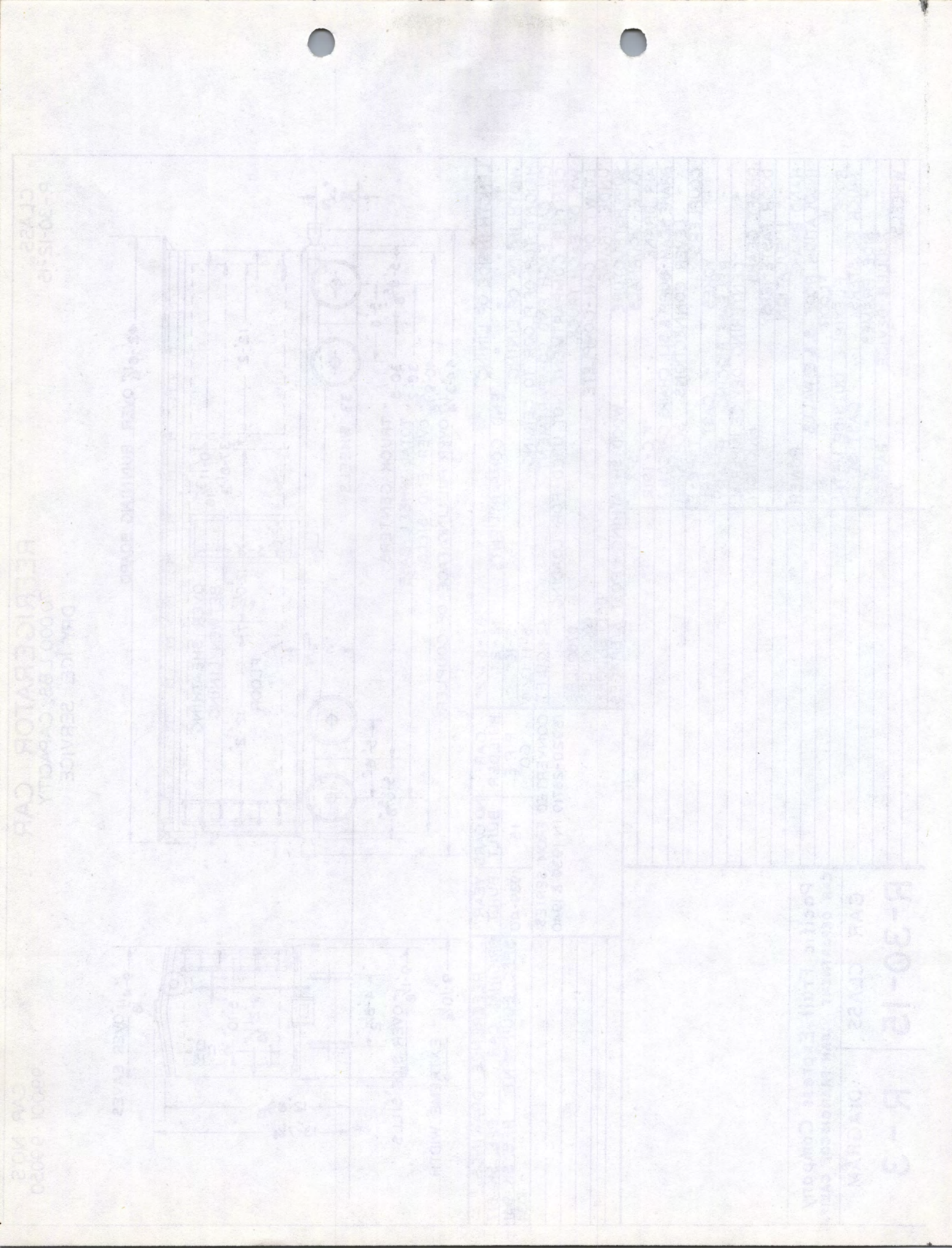
CAR BUILDER	NO CARS BUILT	YEAR BUILT
P. F. E. CO.	15	1939-40

CONVERTED FROM SERIES 15920-26719 IN 1939 & 1940

REFERENCE DRAWINGS	
ORIGINAL CAR	P.F.E. SK. 617
SPEC. EQUIPMENT	P.F.E. SK. 961
" "	" " 1034

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-30-15	R - 3



GROUP INDEX TO DRAWINGS FOR R-30-40-16

DRY ICE CARS

Group 11 - Axles and Wheels

111-C-44	Axles 5" x 9"
C-2723	Wheels - Cast Iron

Group 12 - Body House

Sk. 476	"J" Bolts
Sk. 547	Corner Bands
183-3402	Bulkhead Steel Details
Sk. 555	Flashings
Sk. 590	Sheathing Angle
Sk. 682	End Post Brace
Sk. 738	Side & End Steel Framing
Sk. 742	Side, Intermediate & End Sills
Sk. 744	Wood Framing Details - Side & End
Sk. 747	Door Framing Details
Sk. 754	Insulation Cleating
Sk. 756	End Sill Brace
Sk. 757	Shoulder Bolt
Sk. 758	End Sheathing Strap
Sk. 759	Door Hood & Protection Plate
Sk. 760	Threshold Details
Sk. 767	Door Header Brace
Sk. 786	Sub Flooring Angle
123-3398	Bulkhead Door Details
123-3387	Wood Details - Ceiling
123-3388	Wood Details - Walls
123-3389	Wood Details - Floor
124-3399	Framing Arrangement
Sk. 811	Insulation Cleat
Sk. 843	Templates - Side & End Fascias
Sk. 845	Door Framing
Sk. 848	Side Sub-Sill
Sk. 849	Door Threshold Strip (Fan Cars)
Sk. 858	Insulation & Cleating (Fan Cars)
Sk. 860	Door Hood & Protection Plate (Fan Cars)
Sk. 861	Sheathing Bands
123-2207	Bolt Head Locks
123-2272	End Cross Bracing
122-C-967	Templates for Roofing, Flooring & Siding
122-3406	Flashings
121-3403	Corner Tie Strap
123-3404	Bulkhead Framing Arrangement

Group 15 - Brake Arrangement

Sk. 586	Air Brake Piping (R-30-11, 12 & 14)
Sk. 587	Air Brake Piping (R-30-13)
Sk. 746	Hand Brake Arrangement - Ajax
Sk. 781	Hand Brake Arrangement - Ureco
Sk. 782	Hand Brake Arrangement - Universal
Sk. 783	Hand Brake Arrangement - Equipco
Sk. 784	Hand Brake Arrangement - Miner
Sk. 785	Hand Brake Arrangement - Klasing
Sk. 816	Details & Application of AB Brakes(R-30-11, 12 & 14)
Sk. 817	Details & Application of AB Brakes(R-30-12, & R-40-2)
154-C-4475	Air Brake Piping (R-40-2)
122-3405	Bulkhead Door Posts

Group 16 - Brake Details

Sk. 528	Retainer Pipe Clamp
Sk. 538	Brake Hanger "U" Type
Sk. 570	Hand Brake Rod Guides
Sk. 581	Angle Cock Support
Sk. 766	Retainer Pipe Bracket
Sk. 616	Forged Pins
162-C-3834	Brake Beam Support Bracket
161-C-4509	Brake Hanger (Loop Type)
161-C-4520	Hand Brake Connecting Chain
162-C-4904	Brake Hanger Cotter
161-C-5115	Bell Crank Chain
161-C-5229	Bell Crank Bracket
163-C-5359	Cylinder & Floating Lever
162-C-5360	Badge Plate
162-C-5865	Brake Hanger Bracket Wearing Plate
162-C-5867	Brake Beam Support & Sliding Chair
162-C-5883	Brake Shoe (Duplane)
162-C-6443	Brake Hanger Bracket Wear Plate
162-C-10172	Adjustable Type Chair (Creco) 4 Point Support
162-C-10416	No. 18 Positive Brake Beam

Group 18 - Doors, Gates & Fixtures

Sk. 569	Side Door
183-C-4869	Side Door Fastener Details
183-3401	Bulkhead Door Arrangement
183-3402	Bulkhead Steel Details

Group 20 - Draft Gears

Sk. 573	Coupler Release Rigging Imperial Type B
201-C-4314	Draft Key Retainer

Group 24 - General Design

244-3400	General Design

Group 27 - Insulation

274-3390	Insulation Application - Walls

Group 30 - Painting, Lettering & Numbering

304-2100	Painting, Lettering and Numbering
303-C-741	3" Figures
303-C-951	1" and 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3918	7" Letters
303-C-3919	7" Letters
303-C-10396	Union Pacific Medallion
303-C-10397	Stenciling for U.P. Medallion
303-2269	Stenciling - Roof
305-3304	Stencil - Fan Name Plate - Equipco

Group 32 - Roof

Sk. 749	Upper Framing
Sk. 763	Hatch Plug Cover Plate
Sk. 787	Murphy Solid Steel Roof
Sk. 788	Hatch Carline & Hatch Frame Assembly

Group 34 - Safety Appliances

Sk. 580	Brake Step
Sk. 745	Ladder & Brackets
Sk. 752	Roof Handhold
Sk. 753	Running Board & Details
341-C-4939	Sill Steps
344-C-5188	Handholds
343-2118	Latitudinal Running Board

Group 36 - Springs

361-C-63	Truck Spring
362-C-6966	Spring Plates

Group 42 - Trucks

Sk. 482	Spring Planks (with Bettendorf)
Sk. 575	Spring Planks (A.A.R. Type)
Sk. 700	Column Guide Wearing Channels
423-2247	Packing Retainers - Holdrite
422-C-6465	Journal Box Lid & Pin
422-C-7509	Spring Planks
423-C-7520	Truck Bolster
423-C-7521	Truck Sides

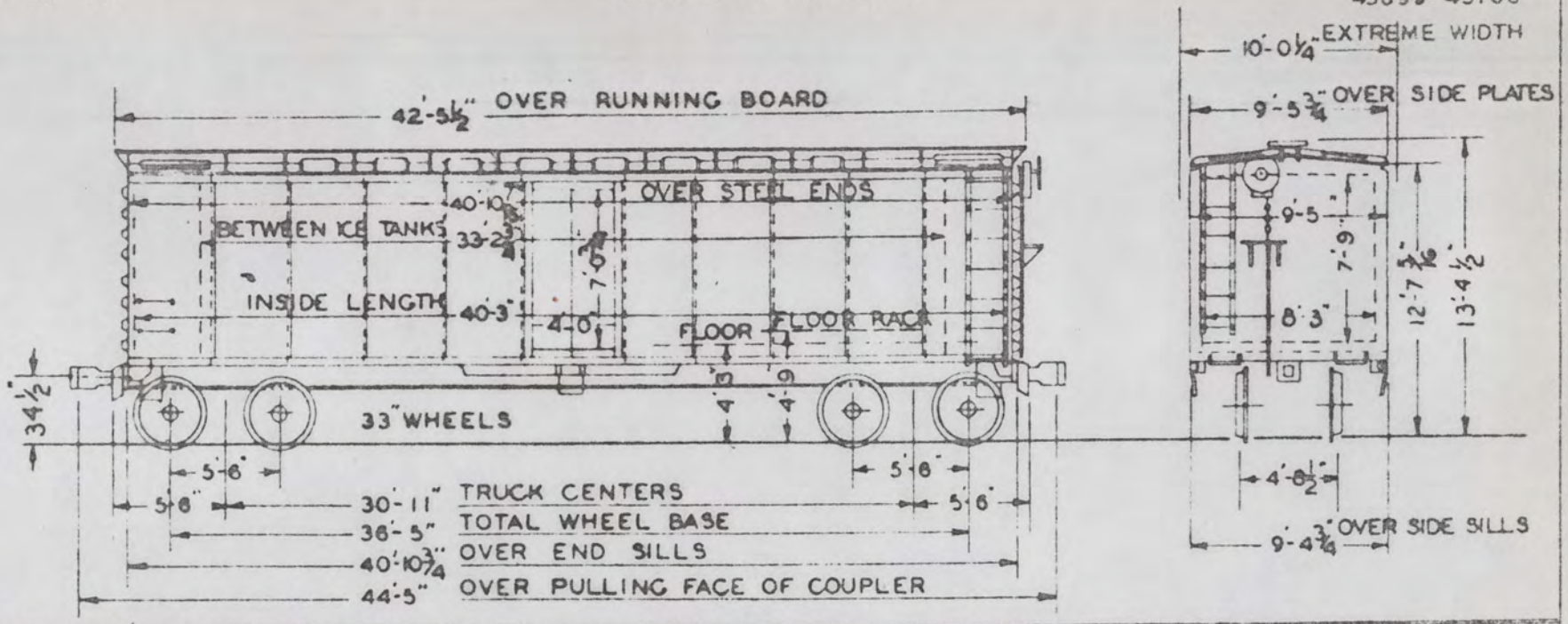
Group 44 - Underframe

Sk. 421	Bolster Top Cover Plate
Sk. 422	Bolster Bottom Cover Plate
Sk. 527	Side Sill Anchor
Sk. 542	Push Pole Pocket
Sk. 589	Body Bolster Diaphragm
Sk. 591	Spring Plank
Sk. 593	Application of Diagonal Braces
Sk. 743	Steel Side & Ends Sills
Sk. 804	Center Sill Fracture
C-1469	Body Center Plate
C-2273	Underframe Details (R-30-12&13)
C-2340	Underframe (R-30-11)
C-2341	Underframe Details (R-30-11)
C-2551	Body Side Bearing
C-2677	Underframe (R-30-13)
C-2772	Underframe (R-30-12)
C-3174	Underframe Details (R-30-13&14)
C-3525	Underframe (R-30-13)
C-3696	Underframe Details (R-30-14)
C-3700	Underframe (R-30-14)
C-3701	Underframe Details (R-30-14)
C-4471	Underframe (R-40-2)
446-C-4472	Underframe Details (R-40-2)
441-C-7512	Body Center Plate
444-2655	Reinforced Body Bolster (R-30-12 &14)
444-3268	Reinforced Body Bolster (R-30-13 & 40-2)

CLASS
R-40-14

REFRIGERATOR CAR
80000 LBS. CAPACITY

CAR NO'S
44701-44738
44740-45697
45699-45700



LENGTH INSIDE OF LINING	40'-3"
" BETWEEN ICE TANKS	33'-2¾"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-9"
CU. CAP. BETWEEN ICE TANKS ABOVE FLOOR RACKS	1988 CU. FT.
CAPICITY OF BOTH ICE TANKS	11500 LBS.
WT. OF EACH BARBER STAB. DBL. TRUSS SPRING PLK. TRK.	
LT. WT. OF CAR - COMPLETE	54800 LBS.
UNDERFRAME	CAR BUILDER - RIVETED
SUPERSTRUCTURE	ALL STEEL

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
PAC. CAR & FDRY. CO.	1000	1941

REFERENCE DRAWINGS	
GENERAL DESIGN	244 C 7485
BRAKE ARRGT.	154 C 5807
TRUCK ARRGT.	424 C 8178
UNDERFRAME	444 C 7486
ROOF ARRGT.	324 C 5804
ST. END ARRGT.	374 C 5802
ST. SHEATHING ARRGT.	124 C 7474
HATCHWAY	324 C 7477

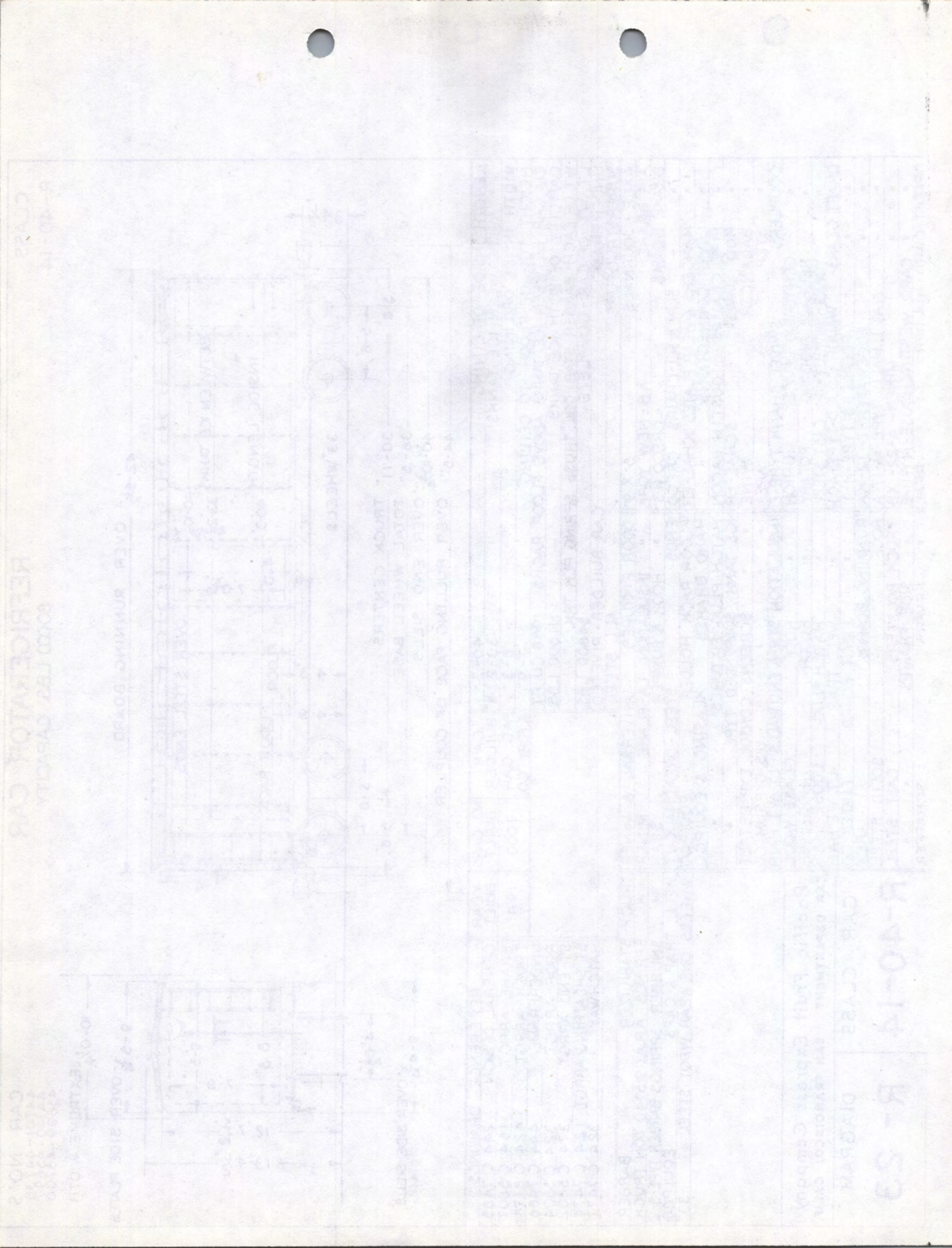
AXLE - JOURNALS	5" X 9"
AIR BRAKE	AB - NEW YORK
BRAKE BEAMS	CRECO H 3
" " SUPP. & SLI. CHAIRS	CRECO
" HANGERS & WEAR PLATES	SCHAEFER
" LEVER CONNECTIONS	"
" PIPE CLAMPS	GUSTIN BACON
" ROD JAWS	SCHAEFER
" BALANCER	WINE
" STEP	APEX
COUPLERS	SWIVEL SHANK TYPE - E
" CENTERING DEVICE	UNION
" RELEASE RIGGING	ROTARY
" YOKES - SWIVEL END	CAST STEEL
DRAFT GEARS	WAUGH COULD - TYPE - 403
" "	PEERLESS TYPE - H - 1
" "	EDGEWATER - B - 32 - KA
" "	NAT'L. MALL. TYPE - M - 17 - A
" "	MINER - A - 22 - XB
" "	CARD WESTINGHOUSE - NY - 11 - E
DESERT CARD HOLDER	REAL

DOOR FIXTURES	UNIVERSAL & MINER
" INSULATION LA - FLARE	MINER
" HOOK & BUMPER	SLAM
ENDS	STEEL - DREADNAUGHT
FLOOR RACK HOLDER	EQUIPCO
HAND BRAKES	KLASING & EQUIPCO
HATCH PLUG FIXTURES	"
ICE TANK SUSPENDED TYPE	"
" " SCREENS	CONSOL. EXP. METALS
" " "	U.S. GYPSUM CO.
INSULATION SIDE & END WALLS	LT. WT. HAIR
" ROOF	GLASS WOOL
" FLOOR	HOG HAIR
" HATCH PLUG	LOOSE HAIR
" WELL TRAP	LT. WT. HAIR
" FIBER BOARD	FIBREX CO.
RUNNING BOARDS	APEX
ROOF	SOLID STEEL
TRUCK BOLSTERS	CAST STEEL
" SIDE FRAMES	" "
" LEVERS	SCHAEFER

TRUCK STABILIZER	BARBER
" SPRINGS	A.R.A. (1915) 40 TON TRUCK
" SNUBBER SPRINGS	BARBER TYPE - S - 2
WELL TRAP & CAPS	EQUIPCO
WHEELS ONE WEAR WROT STEEL	33"

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-14	R- 23



Group Index of Drawings for R-40-14 Refrigerator Cars

Series 44701 - 45700

026-2850	Fan Application AA-3

Group No. 11 Axles and Wheels

111-C-44	Axles - 5" x 8"
111-C-1527	Marking for Solid Wrought Steel Wheels
111-C-7416	Marking for Single Plate Bracketed Wheels
112-C-6256	One Wear Wrought Steel Wheels
113-C-8041	Cast Iron Wheels

Group No. 12 Body - House Car Design

124-C-7474	Steel Sheathing & Framing
123-C-7479	Floor Rack
124-C-8195	Pinless Floor Rack Hinge Arrangement
122-C-8207	Floor Rack Hinge - Equipco
122-C-8208	Floor Rack Hinge - Fulcrum - Equipco
121-C-8209	Hinge Retainer Plate
122-C-8338	Lumber Templates
123-C-8344	Side Sheets
121-C-8353	Ceiling Support Bracket & Washer
122-C-8355	Top Corner Connection
121-C-8356	Protection Plate and Angle
123-C-8357	Steel Details
121-C-8358	Door Hood
121-C-8359	Doorway Flashing
123-C-8362	Wood Details
123-C-8363	Wood Details
123-C-8364	Door and Bulkhead Post - Wood Details
126-C-8367	Wood Details - Body
124-C-8368	Steel Details
124-C-8370	Wood Details - Plywood
122-C-5725	Threshold Plate
123-C-8435	Side and End Framing Diagram
124-C-8436	Floor Framing Diagram
124-C-8437	Roof Framing Diagram
122-C-8438	Plywood Diagram - Side

Group No. 15 Brake Arrangement

153-C-8190	Hand Brake Arrangement - Klasing
154-C-8212	Hand Brake Arrangement - Equipco
154-C-8397	Air Brake Arrangement

Group No. 16 - Brake Details

161-C-141	Brake Lever Pins
162-C-4266	Push Rod
162-C-4440	Brake Pipe Anchor - Gustin Bacon
162-C-4509	Brake Hanger - Loop Type
162-C-4904	Brake Beam Hanger Cotter
161-C-5146	Lower Unit Pins
162-C-5160	Truck & Cylinder Lever Connection
162-C-5161	Cylinder & Floating Lever Connection
161-C-5183	Hand Brake Connection & Clevis
162-C-5306	Housing Support & Brake Rod
161-C-5594	Brake Shoe Key
162-C-5883	Brake Shoe
162-C-5902	Connecting Chain
163-C-5904	Brake Rod Jaw - Schaefer
162-C-6443	Brake Hanger Bracket Wear Plate
162-C-6444	Truck Lever Connection
162-C-6457	Floating Lever - Schaefer
162-C-6458	Cylinder Lever - Schaefer
162-C-6697	Brake Rod Jaw
162-C-7326	Brake Beam Support & Sliding Chair - Creco
162-C-7784	No. 3 Brake Beam - Creco
162-C-8183	No. 3 Brake Beam - Ajax
163-C-8191	Truck Lever - Schaefer
163-C-8342	Hand Brake Details
163-C-8352	Air Brake Details
162-C-5934	Badge Plate
162-C-5514	Bottom Rod Guards
163-C-8349	Brake Details
162-C-10416	Brake Beam - Positive #18
162 -2667	Brake Beam Support Chairs - Creco

Group No. 18 - Doors, Gates & Fixtures

182-C-5863	Side Door Hinge
183-C-5896	Door Hook and Bumper - Slam
184-C-8185	Side Door Fastener Arrangement - Miner
183-C-8189	Side Door Fastener Arrangement - Universal
182-C-8346	Side Door Steel Details
183-C-8365	Side Door & Hatch Plug Wood Details
182-C-8340	Side Door Framing Details

Group No. 20 - Draft Gears

201-C-4097	Draft Gear Key
202-C-4281	Draft Gear Carrier

Group No. 20 - Draft Gears (Cont'd)

202-C-9385	Draft Key Retainer - A.A.R.
201-C-4793	Draft Gear Follower Plate
203-C-5508	Draft Gear - National Type M-17-A
203-C-5548	Draft Gear - Miner A-22-XB
203-C-5549	Draft Gear - Westinghouse Type NY-11-E
203-C-5551	Draft Gear - Waugh Gould Type - 403
203-C-5817	Coupler Centering Device Details - Union
203-C-5882	Draft Gear - Peerless Type H-1
203-C-6272	Draft Gear - Edgewater Class B-32-KA
202-C-7615	Yoke
203-C-8112	Coupler Yoke - Swivel Type
202-C-8115	Coupler with 6-1/4" x 8" Swivel Shank - Type "E"
204-C-8171	Coupler Centering Device
202-C-8174	Coupler Release Rigging - Rotary
203-C-8180	Application of Westinghouse Friction Draft Gear Type NY-11-E
203-C-8181	Application of Waugh Friction Draft Gear Type 403
204-C-8186	Application of Miner Friction Draft Gear Type A-22-XB
204-C-8369	Striking Casting & Front Draft Gear Stop

Group No. 24 - General Design

244-C-7485	General Design

Group No. 26 - Ice Tank

263 -2563	Well Trap & Cap - Equipco
263-C-5850	Well Trap and Cap - Equipco
264-C-8179	Ice Tank Screen
264-C-8184	Ice Tank Screen
264-C-8196	Ice Tank Arrangement - Equipco
264-C-8197	Ice Tank Steel Details - Equipco
263-C-8206	Bulkhead Ceiling Header
262-C-8345	Floor Pan
262-C-8360	Ice Tank Details - Steel
263-2422	Drain Spout Pan
263-2423	Drain Spout Application

Group No. 27 - Insulation

276-C-7484	Floor Insulation - Hog Hair
276-C-7487	Insulation - Roof Sides & End Wall of Car

Group No. 28 - Miscellaneous

282-C-6010	Routing Card Board
282-C-6150	Defect Card Holder
281-C-8336	Placard Board
282-C-8348	Ownership Plate

Group No. 30 - Painting, Lettering & Numbering

303-C-741	3" Figures
303-C-951	1" & 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-10396	Union Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3919	7" Letters
304-C-9861	Lettering on Refrigerator Cars
303-C-10397	Stenciling for U.P. Medallion

Group No. 32 - Roof

324-C-7472	Hatch-Way Wood Framing
324-C-7477	Hatch-Way Arrangement
323-C-7596	Hatch Closure Gasket
324-C-8167	Hatch Frame & Carline Assembly
324-C-8168	Solid Steel Roof
325-C-8172	Side Plate Angles
323-C-8198	Hatch Closure Cover Bracket
323-C-8205	Hatch Closure Operating Lever
322-C-8210	Operating Lever Fulcrum & Bolt
322-C-8211	Hatch Closure Cover Lifter
321-C-8333	Hatch Plug Hinge
321-C-8334	Hatch Plug Hinge Butt
322-C-8337	Hatch Plug Steel Cover
323-C-8343	Hatch & Roof Wood Details
323-C-8354	Hatch Plug & Cover Details

Group No. 34 - Safety Appliances

342-C-7584	End Hand Hold Bracket
342-C-7661	Running Board Support
343-C-7973	Handholds
341-C-8188	Apex Brake Step
343-C-8341	Side & End Ladders With Brackets
343-C-8350	Sill Step & Brackets
341-C-8351	Running Board Angle
342-C-8372	Brake Step Brackets
344-C-8187	Apex Running Board

Group No. 36 - Springs

361-C-63	Truck Spring
362-C-6280	Spring Plate - Universal UXS-4
362-C-8114	Truck Side Springs

Group No. 37 - Steel Ends

374-C-8169	Application - Dreadnaught Steel End
374-C-8170	Steel End Details
374-C-8361	Steel End Reinforcement
372-C-8375	Steel End Filler Clips & Stud Rivet Bolt

Group No. 42 - Trucks

421-C-66	Journal Bearing
422-C-2566	Journal Bearing Wedge
422-C-4264	Center Pin
421-C-4715	Dust Guard
422-C-6281	Truck Wear Plate & Bolt
423-C-7318	Journal Box Lid & Pin
422-C-7323	Cotter Pin - Barber Truck
423-C-8175	Truck Side Frame
424-C-8176	Truck Bolster
424-C-8178	Truck Assembly
422-C-8182	Friction Casting
422-C-7509	Spring Plank

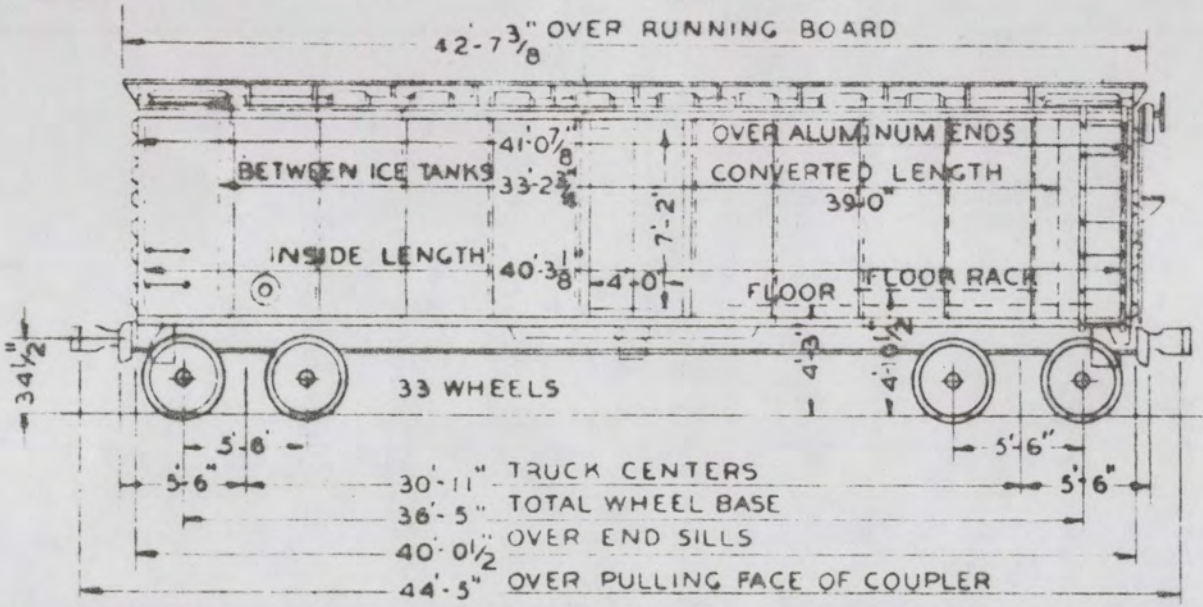
Group No. 44 - Underframe

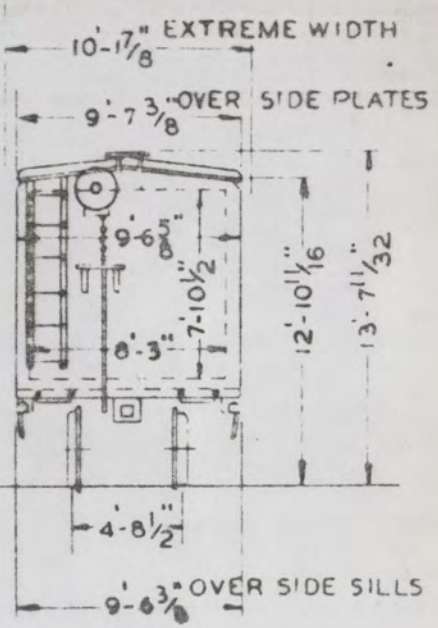
442-C-1914	Application of Hot Box Cooler Hooks
442-C-5830	Side Bearing Brace
443-C-5832	Bolster Center Filler
442-C-8335	Body Side Bearing
442-C-8339	Push Pole Pocket & Brace
443-C-8347	Underframe Details
163-C-8349	Brake Details
446-C-8366	Underframe Details
444-C-7486	Underframe Arrangement
442-C-5829	Body Center Plate
442-2335	Diagonal Brace - Alternate

CLASS
R-40-14

REFRIGERATOR CAR
80 000 LBS. CAPACITY
(ALUMINUM SUPERSTRUCTURE "ALCOA")

CAR NO
44739





LENGTH INSIDE OF LINING	40'-3 1/8"
BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-10 1/2"
CU CAP BETWEEN ICE TANKS-1988 CU.FT - ICE TANKS CONV.	2330 CU.FT.
CAPACITY OF BOTH ICE TANKS	11500 LBS.
WT. OF EACH AM.STL.FDY. A-3 TRUCK WITH STEEL WHEELS	6900 LBS.
LT. WT. OF CAR	48000 LBS.
UNDERFRAME	O.H. STEEL
SUPERSTRUCTURE	ALUMINUM CO. OF AMERICA

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P.F.E.CO.	1	1947

REFERENCE DRAWINGS	
INSULATION APPL.	SK. 1297
ROOF ARRGT.	SK 1411
END ARRGT.	SK 1347
ICE TANK	202-2051
ALUMINUM SHEATHING	SK. 1048
UNDERFRAME	SK. 1364
TRUCKS	422-2073

AXLE-JOURNALS TUBULAR	5"x9"
AIR BRAKE	NEW YORK
BRAKE BEAMS	CHICAGO RY. EQ. CO.
" " SUPPORTS	" " " "
" HANGERS & WEAR PLATES	SCHAEFER
" LEVER CONNECTIONS	"
" PIPE ANCHOR	GUSTIN-BACON
" ROD JAWS	SCHAEFER
" BALANCER	WINE
" STEP	APEX ALUMINUM
COUPLER	SWIVEL SHANK-TYPE E
" CENTERING DEVICE	STD. RY. EQ. CO.
" RELEASE RIGGING	" " " "
" YOKES-SWIVEL TYPE	CAST STEEL
DRAFT GEARS	WAUGH-MAT
DEFECT CARD HOLDER	RY. DEVICES CO.
DOOR FIXTURES	MINER
" HOOK & BUMPER	WESTERN RY. EQ. CO.
ENDS-DREADNAUGHT ALUM.	STD. RY. EQ. CO.
FAN ALUMINUM	PRECO F6-34A
FLOOR RACK HOLDER	EQUIP. SPEC'L'TS DIV.

HAND BRAKES	AJAX-ALUM.
HATCH PLUG FIXTURES	EQUIP. SPEC'L'TS. DIV.
ICE TANK CONVERTIBLE-ALUM.	" " "
" " SCREENS	U.S. GYPSUM CO.
INSULATION SIDE & END WALLS	LT. WT. HAIR
" ROOF	" " "
" FLOOR	" " "
" HATCH PLUG	" " "
" WELL TRAP	" " "
" FIBERBOARD	HARBORITE
RUNING BOARD	APEX ALUM.
ROOF-ALUMINUM	STD. RY. EQUIP. CO.
TRUCK BOLSTER A-3	CAST STEEL
" SIDE FRAME A-3	" "
" LEVERS	SCHAEFER
" RIDE CONTROL PARTS	AM. STL. FDRIES.
TRUCK SPRINGS	AMERICAN LOCO. CO.
WELL TRAP AND CAP	EQUIP. SPEC'L'TS. DIV.
WHEELS-33"	ONE WEAR WROT STEEL

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-14	R-25

Group Index of Drawings
for
Pacific Fruit Express Company
80,000 lb. Capacity Aluminum Sheathed Wood Lined Refrigerator Car
Class R-40-14 ("Alcoa" Aluminum)

Group No. 02

Preco Fan Installation (Model F.G. 34-A)

Group No. 11 - Axles and Wheels

111-C-44	Axles 5" x 9"
112-C-8719	One Wear Wrought Steel Wheels

Group No. 12 - Body-House Cars

Sk. 1320	Plywood Templates-Lining
Sk. 1342	Door Keeper-Lower
Sk. 1359	Threshold Plate
Sk. 1361	Floor Stringer-Wood
Sk. 1368	Floor Insulation-Cleats
Sk. 1369	Ventilator Track Bracket
Sk. 1378	Floor Rack Hinge
Sk. 1381	Corner Caps-Top
Sk. 1349	Corner Cap-Bottom
Sk. 1405	Floor Rack Extention
Sk. 1408	Aluminum Sheathing & Framing
Sk. 1410	SideSheets - Aluminum
122-2036	Aluminum Details-Side
121-2038	Door Hood & Protection Plate
182-2048	Door Framing Details-Wood
122-2057	Ceiling Beam Bracket
123-2059	Side Framing Details-Wood
122-2071	Aluminum Floor Racks
121-C-5318	Doorway Flashing
123-2109	Alum. Floor Rack - Details

Group No. 15 - Brake Arrangement

152-2087	Hand Brake Arrangement-Ajax
154-C-8397	Air Brake Arrangement

Group No. 16 - Brake Details

161-C-141	Brake Lever Pins
162-C-4266	Push Rod
162-C-4440	Brake Pipe Anchor-Gustin Bacon

Group No. 16 - Brake Details (Cont'd)

162-C-4509	Brake Hanger-Loop Type
162-C-4904	Brake Beam Hanger Cotter
161-C-5146	Lower Unit Pins
162-C-5160	Truck & Cylinder Lever Connection
162-C-5161	Cylinder & Floating Lever Connection
161-C-5183	Hand Brake Connection & Clevis
161-C-5594	Brake Shoe Key-Lock-Tite
162-C-5883	Brake Shoe
163-C-5904	Brake Rod Jaw - Schaefer
162-C-5902	Connection Chain
162-C-6443	Brake Hanger Bracket Wear Plate
162-C-6444	Truck Lever Connection
162-C-6697	Brake Rod Jaw
162-C-7326	Brake Beam Support & Sliding Chair-Creco
163-C-8191	Truck Lever - Schaefer
163-C-8342	Hand Brake Details
163-C-8352	Air Brake Details
162-C-5514	Bottom Rod Guards
162-C-5934	Badge Plate
162 -2667	Brake Beam Support Chairs - Creco

Group No. 18 - Door, Gates & Fixtures

182-C-5863	Side Door Hinge
183-C-5896	Door Hook and Bumper-Slam
183-C-8189	Side Door Fastener Arrangement-Universal
Sk. 1353	Side Door Aluminum Details
Sk. 1367	Side Door Details-Wood

Group No. 20 Draft Gears

201-C-4097	Draft Gear Key
202-C-4281	Draft Gear Carrier
201-C-4793	Draft Gear Follower Plate
203-C-5817	Coupler Centering Device Details-Union
203-C-8112	Coupler Yoke-Swivel Type
202-C-8115	Coupler with 6-1/4" x 8" Swivel Shank - Type E
204-C-8171	Coupler Centering Device
202-C-8174	Coupler Release Rigging - Rotary
204-C-8369	Striking Casting & Front Draft Gear Stop
202-C-9385	Draft Key Retainer - "Azee"

Group No. 26 - Ice Tank

Sk. 1406	Well Trap & Cap - Equipco
Sk. 1360	Flashings
Sk. 1366	Ice Tank Details-Wood
Sk. 1373	Drip Trough Application
Sk. 1403	Floor Pan
Sk. 1407	Bulkhead Ceiling Beam
262-2051	Equipco Convertible Bulkhead
262-2081	Plywood Templates-Bulkhead
263-C-8812	Ice Tank Screens

Group No. 27 - Insulation

Sk. 1297	Insulation Application

Group No. 28 - Miscellaneous

282-C-6010	Routing Card Board
282-C-6150	Defect Card Holder
281-C-8336	Placard Board
Sk. 1345	Placard Board Brackets

Group No. 30 - Painting, Lettering & Numbering

303-2269	Stenciling - Roof
303-C-741	3" Figures
303-C-951	1" & 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-10396	Union Pacific Medallion
303-C-3915	7" Figures

Group No. 30 - Painting, Lettering & Numbering (Cont'd)

303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3919	7" Letters
304-C-9861	Lettering on Refrigerator Cars
303-C-10397	Stenciling for U.P. Medallion

Group No. 32 - Roof

	Aluminum Hatch Fixtures
Sk. 1354	Hatchplug Arrangement & Details
Sk. 1355	Carline Clips & Reinforcement
Sk. 1358	Upper Framing Details - Wood
Sk. 1365	Plywood Templates - Ceiling
Sk. 1382	Hatch Cover & Details
Sk. 1350	Murphy Aluminum Riveted Roof - Details
Sk. 1401	Aluminum Hatch Carline & Hatch Frame Assembly
Sk. 1411	Murphy Aluminum Riveted Roof

Group No. 34 - Safety Appliances

Sk. 1343	Side & End Handholds
Sk. 1344	Sill Steps & Brackets
Sk. 1345	Brackets at Aluminum End
342-2060	Door Hook & Ladder Securement
342-2072	Side & End Ladders & Brackets
342-2088	Aluminum Running Board - Apex
341-C-8351	Aluminum Running Board Angles
341-2115	Aluminum Brake Step - Apex

Group No. 36-Springs

361-2076	Truck Springs 3-13/16" Travel
362-2415	Truck Springs 3-11/16" Travel

Group No. 37 - Aluminum Ends

Sk. 1347	Dreadnaught Aluminum End
Sk. 1348	Dreadnaught Aluminum End-Details
Sk. 1352	End Reinforcement Beam
Sk. 1356	End Framing Details-Wood
Sk. 1376	Aluminum End Filler Clips
Sk. 1377	Stiffeners at Hand Brake

Group No. 42 - Truck

421-C-66	Journal Bearing
422-C-2566	Journal Bearing Wedge
422-C-4264	Center Pin
421-C-4715	Dust Guards
422-2073	Ride Control Truck A-3
422-2074	Truck Side Frame A-3
422-2075	Truck Bolster A-3
422-2077	Truck Friction Casting & Plate A-3
421-2078	Truck Journal Box-Detail A-3

Group No. 44 - Underframes

442-C-5830	Side Bearing Brace
443-C-5832	Bolster Center Filler
442-C-8353	Body Side Bearing
442-C-5829	Body Center Plate
Sk. 1364	Underframe Arrangement
442-2039	Underframe - Details

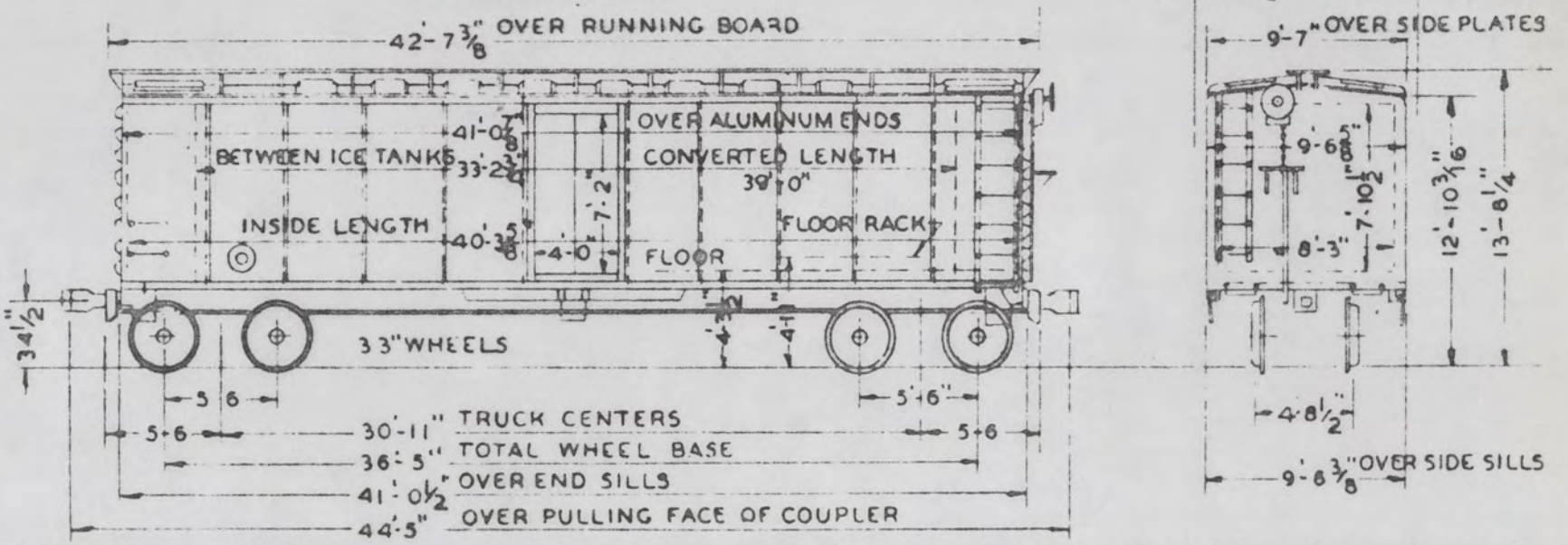
CLASS
R-40-14

REFRIGERATOR CAR

80000 LBS. CAPACITY

(ALUMINUM SUPERSTRUCTURE-"REYNOLDS")

CAR NO.
45698



LENGTH INSIDE OF LINING	40'-3 5/8"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-10 1/2"
CU. CAR BETWEEN ICE TANKS 1988 CU. FT. - ICE TANKS CONV. 2830 CU. FT.	
CAPACITY OF BOTH ICE TANKS	11500-LBS.
WT. OF EACH AM. STL. FDY. A-3 TRUCK WITH STEEL WHEELS	69000-LBS.
LT. WT. OF CAR	47500-LBS.
UNDERFRAME	O.H. STEEL
SUPERSTRUCTURE	REYNOLDS METALS CO.

CAR BUILDER	NO CARS BUILT	YEAR BUILT
P.F.E.CO.	1	1946

REFERENCE DRAWINGS	
GENERAL DESIGN	243-2150
INSULATION APPL.	SK-1380
ROOF ARRGT.	SK-1409
END ARRGT.	SK-1384
ICE TANK	SK-1399
ALUMINUM SHEATHING	SK-1323
UNDERFRAME	SK-1364
TRUCKS	422-2073

AXLE JOURNALS	5" x 9"
AIR BRAKE	NEW YORK
BRAKE BEAMS	CHICAGO RY. EQ. CO.
" " SUPPORTS	" " "
" HANGERS & WEAR PLATES	SCHAEFER
" LEVER CONNECTIONS	"
" PIPE ANCHOR	GUSTIN BACON
" ROD JAWS	SCHAEFER
" BALANCER	WINE
" STEP	APEX ALUMINUM
COUPLERS	SWIVEL SHANK TYPE "E"
" CENTERING DEVICE	STD. RY. EQ. CO.
" RELEASE RIGGING	" " "
" YOKES	SWIVEL TYPE CAST STEEL
DRAFT GEARS CARD	WEST'H'SE. NY-11-F
DEFECT CARD HOLDER	RY. DEVICES CO.
DOOR FIXTURES	UNIVERSAL
" HOOK & BUMPER	WESTERN RY. EQ. CO.
ENDS	DREADNAUGHT-ALUMINUM-STD. RY. EQ. CO.
FLOOR RACK HOLDER	EQ. SPEC'LT'S. DIV.
HAND BRAKES	AJAX ALUMINUM

HATCH PLUG FIXTURES	EQ. SPEC'LT'S. DIV.
ICE TANK-CONVERTIBLE-ALUM.	" "
" " SCREENS	U.S. GYPSUM CO.
INSULATION-SIDE & END WALLS	ULTRALITE
" ROOF	"
" FLOOR	"
" HATCH PLUG	"
" WELL TRAP	"
" FIBERBOARD	INSULITE
RUNNING BOARD	APEX-ALUM
ROOF-ALUMINUM	STD. RY. EQ. CO.
TRUCK BOLSTER A-3	CAST STEEL
" SIDE FRAME A-3	" "
" LEVERS	SCHAEFER
" RIDE CONTROL PARTS	AM. STL. FDRIES
" SPRINGS	AM. LOCO. CO.
WELL TRAP & CAP	EQ. SPEC'LT'S. DIV.
WHEELS-ONE WEAR WROT STEEL	33"
FAN-ALUMINUM	PRECO FG-34A

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-14	R-24

Group Index of Drawings
for
Pacific Fruit Express Company
80,000 lb. Capacity Aluminum Sheathed Wood Lined Refrigerator Car
Class R-40-14 ("Reynolds" Aluminum)

Group No. 02

Preco Fan Installation (Model F.G. 34-A)

Group No. 11 - Axles and Wheels

111-C-44	Axles 5" x 9"
112-C-8719	One Wear Wrought Steel Wheels
112-C-9946	Tubular Axles

Group No. 12 - Body-House Cars

Sk. 1320	Plywood Templates - Lining
Sk. 1342	Door Keeper-Lower
Sk. 1359	Threshold Plate
Sk. 1361	Floor Stringer-Wood
Sk. 1362	End Wall Section
Sk. 1368	Floor Insulation - Cleats
Sk. 1369	Ventilator Track Bracket
Sk. 1378	Floor Rack Hinge
Sk. 1349	Corner Caps
Sk. 1323	Aluminum Sheathing & Framing
Sk. 1341	Side Sheets - Aluminum
Sk. 1340	Aluminum Details - Side
Sk. 1346	Door Hood & Protection Plate
Sk. 1363	Door Framing Details-Wood
Sk. 1335	Ceiling Beam Bracket
Sk. 1336	Side Framing Details-Wood
Sk. 1398	Aluminum Floor Racks
Sk. 1405	Floor Rack Ext.
121-C-5318	Doorway Flashing

Group No. 15 - Brake Arrangement

152-2087	Hand Brake Arrangement - Ajax
154-C-8397	Air Brake Arrangement

Group No. 16 - Brake Details

161-C-141	Brake Lever Pins
162-C-4266	Push Rod
162-C-4440	Brake Pipe Anchor - Gustin Bacon

Group No. 16 - Brake Details (Cont'd)

	162-C-4509	Brake Hanger - Loop Type
	162-C-4904	Brake Beam Hanger Cotter
	161-C-5146	Lower Unit Pins
	162-C-5160	Truck & Cylinder Lever Connection
	162-C-5161	Cylinder & Floating Lever Connection
	161-C-5183	Hand Brake Connection & Clevis
UP	161-C-5594	Brake Shoe Key-Lock-Tite
"	162-C-5883	Brake Shoe
"	163-C-5904	Brake Rod Jaw - Schaefer
"	162-C-5902	Connection Chain
"	162-C-6443	Brake Hanger Bracket Wear Plate
"	162-C-6444	Truck Lever Connection
"	162-C-6697	Brake Rod Jaw
"	162-C-7326	Brake Beam Support & Sliding Chair - Creco
"	163-C-8342	Hand Brake Details
"	163-C-8352	Air Brake Details
"	162-C-5514	Bottom Rod Guards
"	162-C-5934	Badge Plate
	163-C-8191	Truck Lever - Schaefer
	162 -2667	Brake Beam Support Chairs - Creco

Group No. 18 - Doors, Gates & Fixtures

	182-C-5863	Side Door Hinge
	183-C-5896	Door Hook and Bumper-Slam
	183-C-8189	SideDoor Fastener Arrangement-Universal
	Sk. 1353	Side Door Aluminum Details
	Sk. 1367	Side Door Details-Wood

Group No. 20 - Draft Gears

UP	201-C-4097	Draft Gear Key
"	202-C-4281	Draft Gear Carrier
	202-C-9385	Draft Key Retainer - "Azee"
"	201-C-4793	Draft Gear Follower Plate
"	203-C-5817	Coupler Centering Device Details - Union
"	203-C-8112	Coupler Yoke-Swivel Type
"	202-C-8115	Coupler with 6-1/4" x 8" Swivel Shank-Type E
"	204-C-8171	Coupler Centering Device
"	202-C-8174	Coupler Release Rigging-Rotary
"	204-C-8369	Striking Casting & Front Draft Gear Stop

Group No. 26 - Ice Tank

	Sk.1406	Well Trap & Cap - Equipco
	Sk.1360	Flashings
	Sk.1366	Ice Tank Details - Wood

Group No. 26 - Ice Tank (Cont'd)

Sk. 1371	Plywood Templates-Bulkhead
Sk. 1373	Drip Trough Application
Sk. 1403	Floor Pan
Sk. 1407	Bulkhead Ceiling Beam
Sk. 1399	Equipco Convertible Bulkhead
263-C-8812	Ice Tank Screens
Sk. 1335	Ceiling Beam Bracket

Group No. 27 - Insulation

Sk. 1380	Insulation Application

Group No. 28 - Miscellaneous

282-C-6010	Routing Card Board
282-C-6150	Defect Card Holder
281-C-8336	Placard Board
Sk. 1345	Placard Board Brackets

Group 30 - Painting, Lettering & Numbering

303-2269	Stenciling - Roof
303-C-741	3" Figures
303-C-951	1" & 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-10396	Union Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3919	7" Letters
304-C-9861	Lettering on Refrigerator Cars
303-C-10397	Stenciling for U.P. Medallion

Group No. 32 - Roof

	Aluminum Hatch Fixtures
Sk. 1401	Aluminum Hatch Carline & Hatch Frame Assembly
Sk. 1354	Hatchplug Arrangement & Details
Sk. 1355	Carline Clips & Reinforcement
Sk. 1358	Upper Framing Details-Wood
Sk. 1365	Plywood Templates-Ceiling
Sk. 1382	Hatch Cover & Details
Sk. 1350	Murphy Aluminum Riveted Roof - Details
Sk. 1409	Murphy Aluminum Riveted Roof

Group No. 34 Safety Appliances

Sk. 1343	Side & End Handholds
Sk. 1344	Sill Steps & Brackets
Sk. 1345	Brackets at Aluminum End
Sk. 1334	Door Hook & Ladder Securement
Sk. 1332	Side & End Ladders & Brackets
342-2088	Aluminum Running Board - Apex
341-C-8351	Aluminum Running Board Angles

Group No. 36 Springs

361-2076	Truck Springs 3-13/16" Travel
362-2415	Truck Springs 3-11/16" Travel

Group No. 37-Aluminum Ends

Sk. 1384	Dreadnaught Aluminum End
Sk. 1383	Dreadnaught Aluminum End-Details
Sk. 1352	End Reinforcement Beam
Sk. 1356	End Framing Details-Wood
Sk. 1337	Aluminum End Filler Clips
Sk. 1351	Stiffeners at Hand Brake

Group No. 42 - Truck

421-C-66	Journal Bearing
422-C-2566	Journal Bearing Wedge
422-C-4264	Center Pin
421-C-4715	Dust Guards

Group No. 42 - Truck (Cont'd)

422-2073	Ride Control Truck A-3
422-2074	Truck Side Frame A-3
422-2075	Truck Bolster A-3
422-2077	Truck Friction Casting & Plate A-3
421-2078	Truck Journal Box-Detail A-3

Group No. 44 - Underframe

442-C-5830	Side Bearing Brace
443-C-5832	Bolster Center Filler
442-C-8353	Body Side Bearing
442-C-5829	Body Center Plate
Sk. 1364	Underframe Arrangement
Sk. 1375	Underframe-Details

GROUP INDEX OF DRAWINGS

FOR

PACIFIC FRUIT EXPRESS COMPANY

CARS CLASS R-30-13 & 14

Group No. 11 Axles & Wheels

C-44	Axles
C-2723	Wheels, Cast Iron
C-2980	Marking for Cast Iron Wheels

Group No. 12 Body House

C-417	Tie Rods
C-710	Corner Plate, Inside, Top
C-711	Corner Plate, Outside, "
C-716	Threshold Plate
C-718	Door Hood
C-720	Tie Rods
C-967	Templates for Roofing, Flooring, etc.
C-2327	Post Pocket, Transom Post, Top
C-2328	Post Pocket, Transom Post, and Brace Pocket Bottom
C-2329	Post Pocket, End Post and Brace Pocket, Top
C-2330	Post Pocket, Intermediate Post and Brace Pocket, Top and Bottom
C-2331	Post Pocket, End Post Pocket, Bottom
C-2351	Post Pocket, Side Door Post Pocket, Bottom
C-2784	Side, Intermediate & End Sub-Sills
C-2791	Angle Iron Sheathing Strip
C-2793	Hinged Floor Rack & Details
C-2806	Blind Flooring Angle Support
C-3145	Post Pocket
C-3147	Wood Details, Side & End Framing
C-3877	Refrigerator Car Framing with Dry Zero Insulation
C-3894	Side & End Framing
C-3895	Side Door Insulation & Details with Dry Zero
C-3896	Side, Inter. & End Sub-Sills with Dry Zero
C-3897	Side, Inter. & End Sub-Sills with Dry Zero
C-3907	Post Pocket Side Door with Dry Zero
C-3908	Top Corner Plate (Inside) with Dry Zero
C-3909	Top Corner Plate (Outside) with Dry Zero
C-3910	Post Pocket (Transom) with Dry Zero

Group No. 15 Brake Arrangement

C-2680	Brake Arrangement, R.R. Design
C-2681	Air Brake Piping R.R. Design
C-3697	Air Brake Piping (Bettendorf)
C-3698	Brake Arrangement (")

Group No. 16 Brake Details

C-1	Brake Shoe Key
C-78	Brake Shaft Guide
C-90	Brake Shaft
C-91	Brake Pawl
C-93	Racket Wheel (Brake)
C-94	Racket and Pawl Plate
C-95	Brake Wheel
C-124	Sheave Wheel for Hand Brake Chain
C-141	Brake Lever Pins
C-389	Floating Lever & Cylinder Lever
C-398	Release Rods
C-603	Push Rods
C-605	Cylinder & Floating Lever Connection
C-606	Truck & Cylinder Lever Connection
C-607	Hand Brake Connection
C-1439	Brake Shoe
C-2682	Reservoir Bracket R.R. Design
C-2683	Brake Shaft Step
C-3178	Brake Beam Sliding Chains (Creco)
C-3185	Brake Beam (Huntoon)
C-3186	Brake Hanger - Bettendorf Trucks
C-3188	Brake Beam (Creco)
C-3304	Brake Beam Support & Clip (Creco)
C-3319	Brake Hanger (Shaefer)
C-3338	Brake Beam Sliding Chains (Creco)
C-3399	Brake Beam (Ajax No. 2 Plus)
C-3450	Brake Beam (Buffalo No. 2 Plus)
C-3550	Hand Brake Lever Chain
C-3641	Hand Brake Chain
162-C-10416	Brake Beam No. 18 (Positive)
162 -2667	Brake Beam Support Chairs - Creco

Group No. 18 Doors, Gates & Fixtures

C-713	Side Door Hinge
C-1448	Door Handle Side Door
C-2781	Side Door, Insulation & Details
C-2798	Side Door Fastener

Group No. 20 - Draft Gear

C-2589	Coupler Type "D"
C-2592	Coupler Yoke
C-2597	Drawbar Stops, R.R. Design
C-2599	Cardwell Draft Gear
C-2601	Miner Draft Gear
C-2617	Draft Spring, Cardwell Gear
C-2851	Murphy Draft Gear
C-3002	Coupler Yoke (Universal)
C-3341	Carmen Coupler Release Rigging
C-3349	Spring Rod for Cardwell Gear
C-3454	Coupler Centering Device
C-3455	Application of Coupler Centering Device
C-3456	Application of Coupler Centering Device
C-3496	Draft Rigging and Details
C-3516	Coupler Horn Striking Center
C-3522	Draft Rigging and Details
C-3559	Draft Gear (Bradford)
C-3693	Coupler Horn Striking Casting
C-3699	Combined Draft Sill & Drawbar Stop (FARLOW)
C-3702	Combined Draft Sill & Drawbar Stop
C-3844	Draft Gear (National)

Group No. 24 - General Design

C-3550	Refrigerator Car General Design

Group No. 26 - Ice Tank

C-1352	Well Trap Scum Cone
C-2998	Ice Tank Screens
C-3309	Well Trap & Cap
C-3310	Ice Tank Screens
C-3703	Ice Tank Lining
C-3704	Ice Tank Steel (Equipment Co.)
C-3705	Ice Tank Details (Equipment Co.)
C-3706	Ice Tank Details (Equipment Co.)
C-3707	Ice Tank Details (Equipment Co.)
C-3708	Ice Tank Details (Equipment Co.)
C-3709	Grate Bar Lock
C-3754	Ice Tank Details (P.F.E.)
C-3755	Floor Pan
C-3757	Grate Rest Support (Equipment Co.)

Group No. 26 Ice Tank (Cont'd)

C-3758	Ice Tank Details (F.F.E.)
C-3759	" " " Wood
C-3760	Details of Open Drip Trough
C-3761	Well Trap & Cap
C-3762	Ice Tank Details (Equipment Co.)

Group No. 27 Insulation

C-2814	Insulation with Cork in Floor
C-3016	Insulation with Cork in Floor & Flaxlinum in side walls
C-3307	Reinforced Hainfelt Insulation
C-3555	Roof Insulation (Flaxlinum)
C-3562	Polar Bear & Celetex Insulation Board
C-3639	Improved Hairinsul Insulation
C-3875	Celetex & Polar Bear Insulation
C-3890	Dry Zero Insulation
C-3891	Insulation Cork
C-3892	" " with Dry Zero

Group No. 28 Miscellaneous

C-420	Defect Cardboard
C-3938	Ownership Plate

Group No. 30 Painting, Numbering & Lettering

C-741	Figures for Freight Cars 3"
C-951	Figures & Letters for Freight Cars 1" & 1-1/2"
C-952	Letters for Freight Cars 3"
C-953	Figures and Letters for Freight Cars 2"
C-3057	Letters for Freight Cars (9")
C-3058	" " " " (9")
C-3059	" " " " (9")
C-3060	" " " " (9")
C-3061	" " " " (9")
C-3062	" " " " (9")
C-3063	" " " " (9")
C-3064	Figures for Freight Cars (7")
C-3065	" " " " (7")
C-3066	" " " " (4")

INDEX TO DRAWINGS

Group No. 30 Painting, Numbering & Lettering (Cont'd)

C-3067	Letters for Freight Cars (4")
C-3068	Letters for Freight Cars (4")
C-3072	Medallion S.P.
303-C-10396	Medallion U.P.
304-2100	Lettering on Refrigerator Car
C-3915	Lettering for Freight Cars (7")
C-3916	Lettering for Freight Cars (7")
C-3917	Lettering for Freight Cars (7")
C-3918	Lettering for Freight Cars (7")
C-3919	Lettering for Freight Cars (7")
303-C-10397	Stenciling for U.P. Medallion

Group No. 32 Roof

C-287	Ridge Pale Knee Brace
C-2352	Malleable Iron Details, Hatch Cover & Plug
C-2813	X.D.A. Flexible Roof & Details
C-2816	Hatchway Lining
C-2821	Bettendorf Side Frame
C-2822	Barber Roller Seat and Roller
C-2824	Carline (Pressed Steel)
C-2852	Hatch Frame Casing
C-2985	National Flexible Outside Metal Roof
C-3138	Roof, Type "A" Flexible
C-3184	Carline (Pressed Steel)
C-3202	Hatch Cover & Plug
C-3452	Hatch Framing Details
C-3540	Hatch Frame Bracing
C-3554	Wood Details, Upper Framing
C-3893	Upper Frame Details

Group No. 34 Safety Appliances

C-116	Brake Step
C-117	Brake Step Bracket
C-120	Running Board Bracket
C-1805	Handholds
C-2825	Running Board

Group No. 36 Springs

C-63	Springs (Truck)

Group No. 42 Trucks

C-3	Truck Lever Connection
C-5	" " "
C-6	Dead Lever Stop
C-66	Journal Bearing
C-70	Dust Guard
C-2549	Truck Bolster
C-2566	Journal Bearing, Wedge, Forged Steel
C-2884	Truck Side Bearing
C-2951	Truck Lever (Schaefer)
C-2955	Dust Guard (Thornburgh)
C-3108	Truck Bolster (Scullin)
C-3138	Journal Bearing Wedge
C-3148	Journal Box Lid (Rwy. Stl. Sp. Co.)
C-3190	Dust Guard
C-3199	Journal Box Lid (N.W.M.I.)
C-3203	Journal Box Lid (Asco)
C-3205	Truck with Bettendorf Side Frame
C-3303	Spring Plank
C-3344	Bettendorf Side Frame
C-3640	Journal Box Lid (Symington)
C-3843	" " " Type M

Group No. 44 Underframe

C-281	King Bolt & Key
C-1467	Needle Beam Gusset, Bettendorf
C-1469	Body Center Plate, Bettendorf
C-1580	Floating Lever Fulcrum
C-1624	Body Bolster Filler
C-2355	Roping and Jacking Casting, Bettendorf
C-2521	Push Pole Pockets
C-2551	Body Center Bearing
C-2665	Body Side Bearing, R.R. Design
C-2668	Body Center Plate R.R. Design
C-2669	Roping & Jacking Casting, R.R. Design
C-2670	Bolster Center Casting
C-2686	Side, Intermediate & End Sub-Sills, R.R. Design
C-3172	Angle Cock Holder (Burnett)
C-3174	Underframe Details (R.R. Design)
C-3525	Underframe
C-3692	Cheek Plate (Farlow)
C-3696	Underframe Details (Bettendorf)
C-3700	Underframe (Bettendorf)
C-3701	Underframe Details (Bettendorf)
C-3727	Center Sill

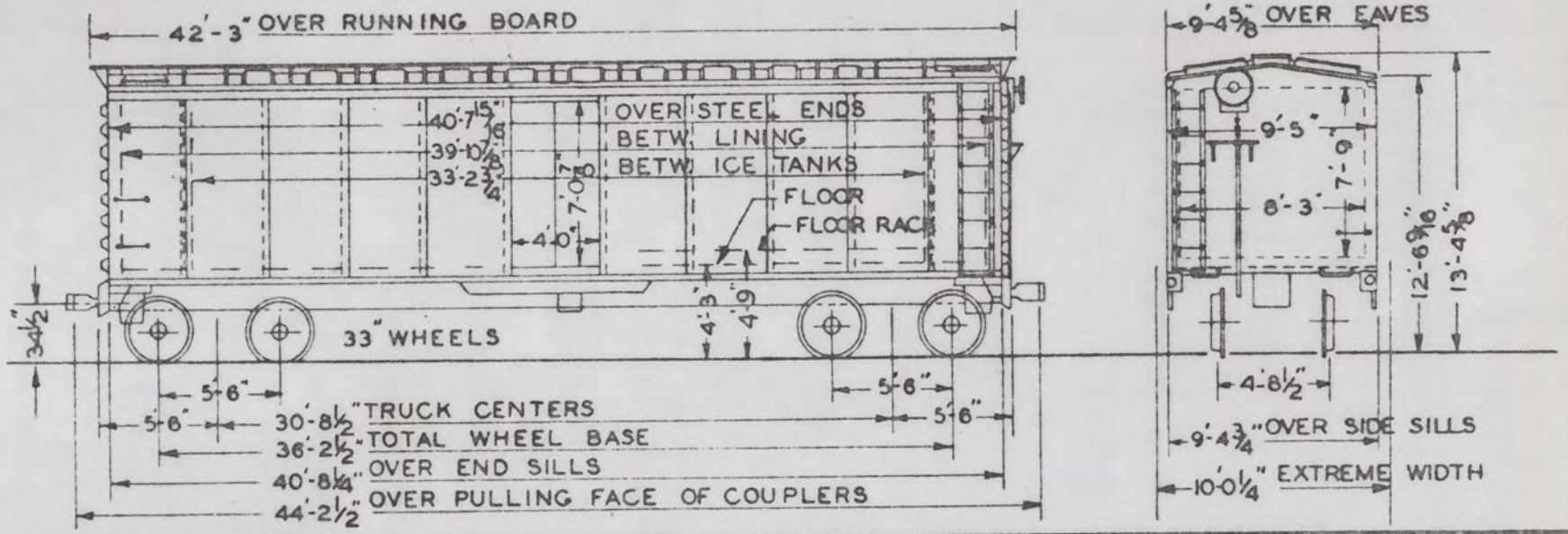
Group No. 44 Underframe (Cont'd)

C-3737	Angle Cock Holder
C-3746	Angle Cock Holder Support
C-3820	" " " "
C-3870	Push Pole Pocket
C-3881	Roping & Jacking Casting
C-3882	Underframe Details

CLASS
R-40-10

REFRIGERATOR CAR
80000 LBS. CAPACITY

CAR NO'S
42201-42700
43701-44200



LENGTH INSIDE OF LINING	39'- 10 7/8"
" BETWEEN ICE TANKS	33'- 2 3/4"
WIDTH INSIDE OF LINING	8'- 3"
HEIGHT TOP OF FLOOR TO CEILING	7'- 9"
CU. CAP. BETWEEN ICE TANKS ABOVE FLOOR RACKS	1988 CU.FT.
CAPACITY OF BOTH ICE TANKS	10000 LBS.
WT. OF EACH TRUCK A.A.R.	7000 LBS.
LT. WT. OF CAR - COMPLETE	53100 LBS.
UNDERFRAME - A.A.R. DESIGN RIVETED	
SUPERSTRUCTURE - ALL STEEL	

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
AM. CAR & FDR. CO.	500	1936
	500	1937

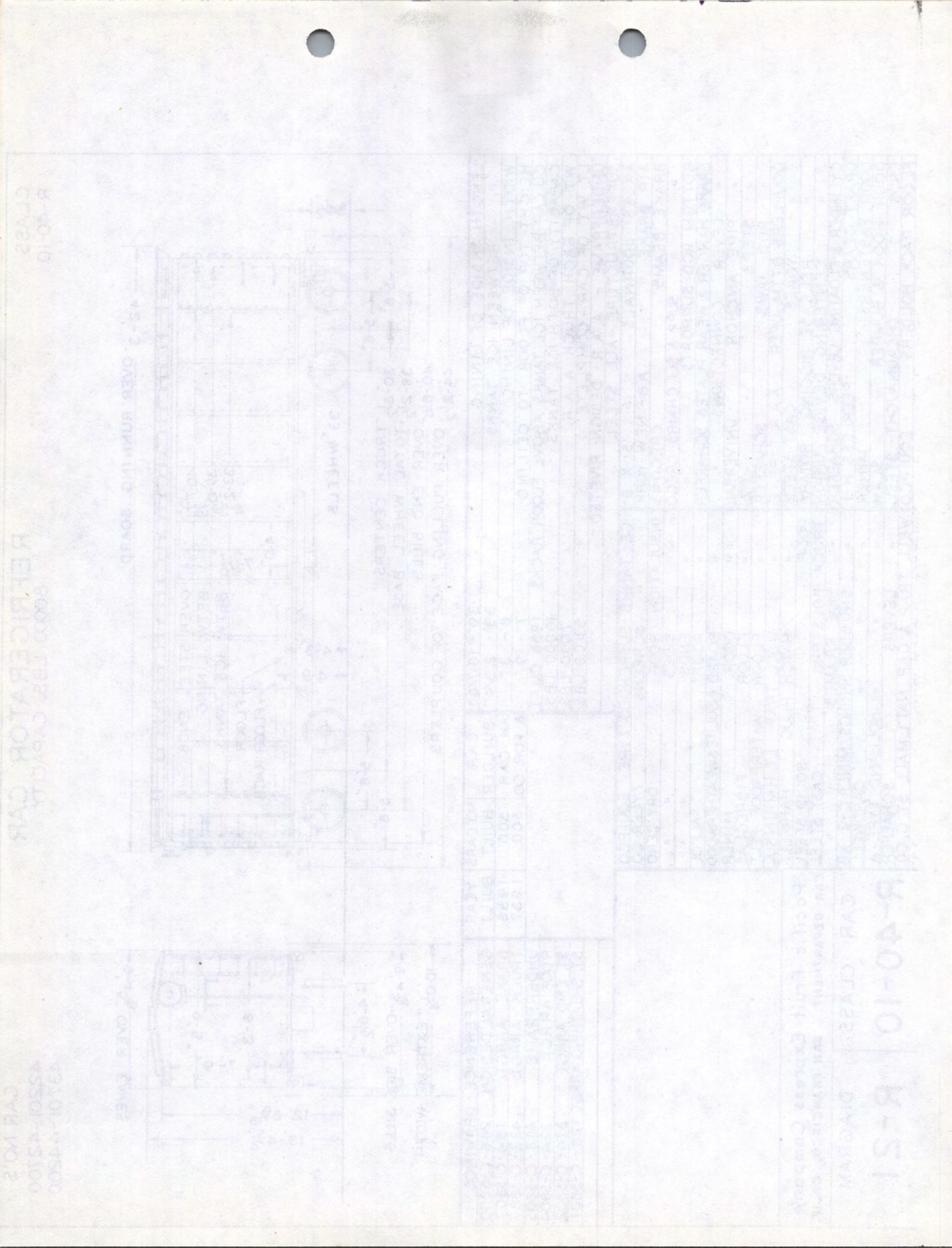
REFERENCE DRAWINGS	
GENERAL DESIGN	246-C-5800
BRAKE ARRGT.	154-C-5807
TRUCK ARRGT.	422-C-5887
UNDERFRAME	466-C-5805
ROOF ARRGT.	324-C-5804
ST. END ARRGT.	374-C-5802
ST. SHEATHING ARRGT.	126-C-5801

AXLES JOURNALS	5" X 9"
AIR BRAKE	AB- NEW YORK
BRAKE BEAMS	CRECO #3
" " SUPP. & SLI. CHAIRS	CRECO
BOTTOM ROD SUPPORTS	"
BRAKE HANGER & WEAR PLATES	SCHAEFER
" LEVER CONNECTIONS	"
" PIPE ANCHOR	UNIVERSAL
" STEPS	T.Z.
" ROD JAWS	SCHAEFER
COUPLERS BTTM. OPER.	A.A.R. TYPE - E
" YOKES	CAST STEEL
" RELEASE RIGGING	ROTARY
" CENTERING DEVICE	UNION
CYLINDER & FLOATING LEVERS	SCHAEFER
DRAFT GEARS	PEERLESS H-1
DOOR FASTENERS	MINER
DOOR HOOK & BUMPER	SLAM
ENDS	DREADNAUGHT - STEEL
FLOOR RACK HOLDERS	EQUIPCO

ICE TANKS SUSPENDED TYPE	EQUIPCO
" " SCREENS	TYLER CO.
INSULATION ROOF	DRY ZERO
" SIDES	" "
" ENDS	" "
" ROOF	ALFOL
" BOARD	INSULITE & WEATHERWOOD
" DOOR	MINER
" FLOOR	FIBREGLAS
" FLOOR	WATERPROOF FELT
" WELL TRAP	LT. HAIRINSUL
" HATCH PLUG	HAIRFELT
ROOF	SOLID STEEL
TRUCK BOLSTERS	CAST STEEL
" SIDE FRAMES	" "
" SNUBBER SPRINGS	MINER C-2-XB
" " "	CARDWELL
" " "	HOLLAND TYPE - A
" LEVERS	SCHAEFER
WELL TRAP & CAP	NAT'L MALL ST. C. CO.

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-10	R-21



Group Index of Drawings

Cars Class R-40-10

Group No. 02 - Heating and Ventilating

Preco Electric Fan - Model AA3

Drwg. No.	
024-2381	Fan Application
022-2577	Name Plate
023-2580	Fan Assembly
024-2582	Fan Alternator Assembly
023-2583	Fan Motor & Impeller Assembly
023-2584	Fan Panel Assembly
024-2586	Fan Duct Assembly
022-2588	Drive Support - Fan
023-2590	Fan Drive Wheel
021-2591	Inboard Bearing Fan
021-2601	Motor Hanger Assembly
021-2720	Screen - Fan
023-2748	Guard & Junction Box Assembly
026-3704	Fans P-51-1 - Equipco

Equipco Fans

024-2355	Fan Details - Misc.
023-2360	Propeller Fan Assembly (Single fan only)
022-2362	Operator Assembly (Single fan only)
023-2698	Propeller Assembly (Twin fans only)
023-2699	Shaft and Spindle Assembly (Twin fans only)
026-2701	Twin Fan Arrangement - Equipco
026-2702	Blower Arrangement - Equipco (Twin fan only)
026-2703	Drive Application (Twin fan only)
026-2704	Single Fan Arrangement - Equipco
023-2705	Propeller Application
022-2706	Friction Wheel
022-2707	Drive Support (Twin fan only)
022-2708	Operator Assembly (Twin fan only)
022-2709	Friction Wheel Assembly
022-2710	Drip Pan (Twin fans only)
022-2711	Spindle
022-2712	Pillow Block Assembly
022-2713	Belt Guard (Twin fan only)
022-2714	Plywood Apron
022-2715	Fan Belts - Equipco (Twin fan only)

R-40-10
INDEX TO DRAWINGS

Group No. 02 - Heating and Ventilating (Cont'd)

022-2716	Miscellaneous Bolts - Equipco Fan
024-2718	Fan Details - Misc.
021-2719	Fan Guard Hinge & Butt (Twin fans Only)
021-2720	Screen - Fan

Group No. 11 - Axles and Wheels

111-C-44	Axles
111-C-1527	Marking for Solid Wrought Steel Wheels
112-C-8719	One Wear Wrought Steel Wheels

Group No. 12 - Body - House

123-2750	Wood Framing Details - Door
Sk. 1038	Corner Post (War Design)
123-2338	Floor Rack Holder - Equipco
122-2378	Coping Board
124-2388	Floor Rack Arrg't and Details
122-2585	Flashings
123-2728	Method of Securing Coping Board
124-2729	Wood Framing Arrg't and Details - End
122-C-967	Templates for Roofing, Flooring, etc.
121-C-5318	Doorway Flashing
122-C-5725	Threshold Plates
126-C-5801	Steel Sheathing & Framing
121-C-5833	Top Corner Connection
121-C-5848	Ceiling Support Bracket & Lock Washers
122-C-5856	Floor Rack Hinge & Butt
121-C-5861	Protection Plate
124-C-5869	Steel & End Framing - Wood Details - Dry Zero
124-C-5870	Steel & End Framing - Wood Details - Hairinsul & Balsam Wood
123-C-5871	Wood Framing Diagram - Side & End - Hairinsul & Balsam Wood
123-C-5872	Door Framing Wood Details (Original Design)
126-C-5874	Wood Framing Diagram - Side & End - Dry Zero
121-C-5877	Floor Rack Holder
121-C-5892	Door Threshold Strip
121-C-5897	Door Post
124-C-5905	Side Sill
124-C-5906	Side Plate
122-C-5907	Door Post
122-C-5908	Corner Post
121 -2389	Threshold Plate

Group No. 12 - Body - House (Cont'd)

123-C-5909	Intermediate Post
122-C-5910	Side Sheet at Door
122-C-5911	Side Sheet - Intermediate
122-C-5912	Side Sheet - Opposite Ladder Corner
122-C-5913	Side Sheet - Ladder Corner
123-C-5914	Side Frame - Steel Details
121-2389	Threshold Plate (2nd quota)
121-2751	Door Threshold Strap (2nd quota)
123-C-5855	Hinged Floor Rack & Details

Group No. 15 - Brake Arrangement

154-C-5807	Air Brake Arrangement - AB Brake
153-C-5810	Hand Brake Arrangement - Ajax
153-C-5811	Hand Brake Arrangement - Universal
153-C-5812	Hand Brake Arrangement - Ureco
153-C-5813	Hand Brake Arrangement - Equipco
153-C-6001	Hand Brake Arrangement - Miner

Group No. 16 - Brake Details

Sk. 616	Forged Pins
163-2542	Brake Rod Jaws
162-2667	Brake Beam Support Chairs - Creco
162-2685	Brake Head Wear plate - Servex
163-C-5315	Angle Cock Support
163-C-5808	Air Brake Details
161-C- 141	Brake Lever Pins
161-C-4440	Brake Pipe Anchor - G.B.
161-C-4509	Brake Hanger - Loop Type - Schaefer
161-C-4904	Brake Beam Hanger Cotter
161-C-5115	Bell Crank Chain
162-C-5293	Brake Beam - Creco No. 3
162-C-6004	Brake Beam - Creco No. 3 - National Type B Truck
162-C-5442	Brake Beam - Ajax No. 3
162-C-5443	Brake Beam - Buffalo No. 3
161-C-5488	Brake Pipe Clamp - Universal
161-C-5594	Brake Shoe Key
161-C-5718	Bottom Rod Guard
161-C-5865	Brake Hanger Bracket Wearing Plate - Schaefer
162-C-5867	Brake Beam Supports & Sliding Chairs - Creco
162-C-5883	Brake Shoe
162-C-5923	Brake Beam - #15, A.A.R.
162-C-5934	Badge Plate - Brass
161-C-5573	Clevis - Miner

Group No. 16 - Brake Details (Cont'd)

161-C-5161	Cylinder & Floating Lever Connection
161-C-5227	Connection Chain -URECO
161-C-5656	Connecting Chain - Miner
162-C-5922	Cylinder Lever - Light Weight - Schaefer
162-C-5921	Floating Lever - Light Weight - Schaefer
161-C-5183	Hand Brake Connection & Clevis
161-C-5306	Hand Brake Rod
162-C-5859	Hand Brake Details
161-C-5902	Hand Brake Connecting Chain
161-C-5146	Lower Unit Pins
161-C-4266	Push Rod
161-C-4697	Painting Brake Cylinder Sleeve
161-C-5160	Truck & Cylinder Lever Connection
162-C-5919	Truck Lever - Light Weight - Schaefer
161-C-5920	Truck Lever Connection - Light Weight - Schaefer
162-C-7326	Brake Beam Supports & Sliding Chairs
162-C-10416	Brake Beam - Positive No. 18
163-C-6218	Wine Brake Balancer Anchor Casting
163-C-6219	Wine Brake Balancer Connection

Group No. 18 - Doors, Gates & Fixtures

182-C-5863	Door Hinge
183-C-5896	Door Hook & Bumper - "Slam"
184-C-5814	Side Door - Insulation & Details
183-C-5880	Side Door - Application of Moulded Rubber Insulation
182-C-5881	Side Door - Steel Details (Original Drwg.)
183-C-5893	Side Door Fastener Details - Miner
183-C-5894	Side Door Fastener Details - Universal - XL
182-2451	Side Door-Steel Details

Group No. 20 - Draft Gear

201-C-4097	Draft Gear Key
203-C-5588	Coupler - Type E, 6-1/4" x 8" Shank - Bottom Operated
202-C-5809	Coupler Release Rigging - Rotary
204-C-5816	Coupler Centering Device - Union
203-C-5817	Coupler Centering Device - Details - Union
203-C-5837	Coupler Centering Device - "Durable"
203-C-5838	Coupler Centering Device - Details - Durable
201-C-4281	Draft Gear Carrier
201-C-4793	Drawbar Follower Plate

Group No. 20 - Draft Gear (Cont'd)

203-C-5508	Draft Gear - National Type M-17-A
203-C-5548	Draft Gear - Miner A-22-XB
203-C-5549	Draft Gear - Westinghouse NY-11-E
203-C-5551	Draft Gear - Waugh-Gould Type 403
203-C-5882	Draft Gear - Peerless Type H-1
204-C-5831	Striking Casting & Front Draft Gear Stop - Union Centering Device
204-C-5903	Striking Casting & Front Draft Gear Stop - Durable Centering Device
202-C-7615	Coupler Yoke
202-C-9385	Draft Key Retainer

Group No. 26 - Ice Tanks

Sk. 870	Grate Sections
Sk. 941	Methods of Repairs to Ice Grate Sections
Sk. 1136	Application of Hinged Half Stage Ice Grates
Sk. 1145	Hinged Half Stage Ice Grate Details
Sk. 1206	Application S. H. Grate Bars
261-2009	Special Bolts
261-2367	Floor Pan
263-2379	Plywood Templates - Ice Tank
263-2423	Drain Spout Application
262-2561	Drain Spout Pan
263-2563	Well Trap Assembly
263-2717	Ice Tank Details - Misc.
262-C-5207	Grate Spacers - P.F.E.
264-C-5818	Ice Tank - Equipco — not on hand
264-C-5819	Ice Tank Details - Steel - Equipco
263-C-5820	Ice Tank Details - Steel - Equipco
262-C-5821	Ice Tank Details - Wood - Equipco — not on hand
263-C-5824	Ice Tank - P.F.E.
262-C-5879	Ice Tank Screens
263-C-5937	Ice Tank Details - Steel - P.F.E.
263-C-5938	Ice Tank Details - Wood - P.F.E.
262-C-5939	Bulkhead Post Foot - P.F.E.
263-C-9707	Drain Spouts
261-C-9728	Drain Spout Wind Guard
246-C-5800	General Design

Group No. 27 - Insulation

274-2380	Insulation Application - Floor
274-C-5822	Insulation - Side & End Walls - Dry Zero
274-C-5823	Insulation - Side & End Walls - Hairinsul & Balsam Wood
273-C-5825	Insulation - Roof - Alfol

Group No. 28 - Miscellaneous

283-2215	Placard Boards
281-2242	Re-Ice Card Holder
282-C-6010	Routing Card Board
282-C-9567	Defect Card Holder - Cheeper

Group No. 30 - Painting, Lettering & Numbering

303-C-741	3" Figures
303-C-951	1" x 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-10396	Union Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3919	7" Letters
303-C-9861	Lettering on Refrigerator Cars
303-C-10397	Stenciling for U.P. Medallion
303 - 2269	Stenciling - Roof

Group No. 32 - Roof

324-C-5815	Hatchway Arrangement
324-C-5841	Hatchway - Wood Framing
323-C-5842	Hatch Frame & Carlines
322-C-5843	Hatch Cover
323-C-5844	Hatch Plug
322-C-5845	Hatch Details - Cast
323-C-5846	Hatch Details - Forged
324-C-5935	Hatch Arrangement - Youngstown Hatch Frame
322-C-5936	Hatch Frame - Youngstown
323-C-5868	Roof Construction - Wood Details
324-C-2733	Solid Steel Roof

Group No. 34 - Safety Appliances

261-2009	Special Bolts
341-2019	G.T. Washers & Special Bolts
343-2660	Metal Running Board - Kerrigan
343-2661	Metal Running Board - Apex
343-2662	Running Board - End Section - Transco
343-2663	Running Board - Inter. Section - Transco
343-2664	Running Board - Transco
342-2666	Running Board Saddle - Details
342-2684	Brake Step - Morton
342-2686	Brake Step - Transco
341-C-4270	Running Board Bracket
342-C-5006	Brake Step Bracket
344-C-5188	Handholds
343-C-5847	Side & End Ladders & Brackets
342-C-5862	Sill Steps and Brackets
341 -2087	Metal Brake Step - Apex
342 -3134	Metal Brake Step - Kerrigan

Group No. 36 - Springs

362-2415	Truck Springs (3-11/16" travel)
362-2697	Truck Springs - Barber Package
361-2722	Side Spring - Type S-2-A(Barber with 2½" travel truck spring)
362-2738	Cardwell Friction Bolster Spring(Type A-2½")
362-2731	Frost Snubber Application - Package
362-2732	Frost Snubber Details - Package
361-C-63	Truck Spring (1-5/8" travel)
362-C-5471	Friction Bolster Spring - Cardwell Type A(1-5/8" travel)

Group No. 36 - Springs (Cont'd)

361-C-5915	Truck Snubber Spring - Miner, Type C-2XB(1-5/8" travel)
362-C-5926	Truck Snubber Spring - Cardwell-Westinghouse (1-5/8" travel)
362-C-5930	Holland Volute Friction Bolster Spring (1-5/8" travel)
362-C-5931	Truck Spring AAR Class E (National Truck)
362-C-6015	Spring Plate - Universal (UL-5)
362-C-8114	Side Springs(Barber with 1-5/8" travel truck springs)
362-C-10776	Spring - Friction Wedge (National C-1)
361-C-9074	Outer Coil Spring A-3 (2-1/2" Travel)
361-C-9075	Inner Coil Spring A-3 (2-1/2" Travel)
361 -3136	Application of Frost #10 Package Snubber
420 -2732	Frost Snubber Details - Package

Group No. 37. - Steel Ends

374-2368	Steel End Reinforcement Beam
373-2562	Steel End Patch
374-C-5802	Application - Dreadnaught Steel End
374-C-5834	Application - Buckeye Steel End
373-C-5803	Steel End - Dreadnaught
373-C-5835	Steel End - Buckeye
371-C-5849	Steel End - Filler Clips - Dreadnaught Steel End
372-C-5933	Steel End - Filler Clips - Buckeye Steel End
374-2368	Steel End Reinf. Beam

Group No. 42 - Trucks

421-2731	Frost Snubber Application - Package
423-2598	Ride Control Package
423-2599	Ride Control Package Application
425-2695	Barber Stabilized Package Application
425-2696	Barber Stabilized Package
421-C-4264	Center Pin
421-C-4027	Dead Lever Fulcrum
421-C-4715	Dust Guards
422-C-6006	Gauge for Creco 4-Pt. Support
421-C- 66	Journal Bearing
422-C-2566	Journal Bearing Wedge
422-C-3138	Journal Bearing Wedge
	Journal Box Lid - National
423-C-9875	Journal Box Lid - Symington
421-C-5876	Truck Side Bearing
423-C-5885	Truck Side Frame - AAR Double Truss
423-C-5886	Truck Bolster
423 -3137	Truck Bolster - Scullin
423 -2924	Ride Control Package ASF Type 401

Group No. 42 - Trucks (Cont'd)

422-C-5887	Truck Assembly - A.A.R.
422-C-5888	Truck Side Frame - Std. Car Truck Co. Stabilizer
423-C-5889	Truck Bolster - Std. Car Truck Co. Stabilizer
424-C-5890	Truck Side Frame N.M.&S.C. Co. - Type B
424-C-5891	Truck Bolster - N.M.&S.C. Co. - Type B
423-C-5898	Truck Stabilizer Assembly - Std. Car Truck Co.
422-C-5899	Truck Stabilizer Wedge Casting - Std. Car Truck Co.
422-C-5900	Truck Stabilizer - Friction Casting Std. Car Truck Co.
421-C-5901	Truck Stabilizer - Details Casting - Std. Car Truck Co.
422-C-5917	Truck Assembly - Std. Car Truck Co. Stabilizer
423-C-5918	Truck Assembly - N.M.&S.C. Co. Type B
423-C-5928	Truck Details - N.M.&S.C. Co. Type B, Leveling Link
423-C-10771	Truck Arrg't (National C-1)
424-C-10772	Truck Bolster (National C-1)
424-C-10774	Truck Side Frame (National C-1)
422-C-10775	Friction Wedge (National C-1)

Group No. 44 - Underframe

Sk. 1249	Bolster Diaphragm Repairs
443-2261	Body Center Plate
443-2335	Diagonal Brace
443-2347	Wood Details - Underframe
441-2564	Repair Ends for Diagonal Braces
444-2723	Underframe Arrangement
446-2724	Underframe Details
443-C-5827	Push Pole Pocket
443-C-5828	Push Pole Pocket
442-C-5830	Side Bearing Brace
444-C-5832	Bolster Center Filler
442-C-5857	Body Side Bearing

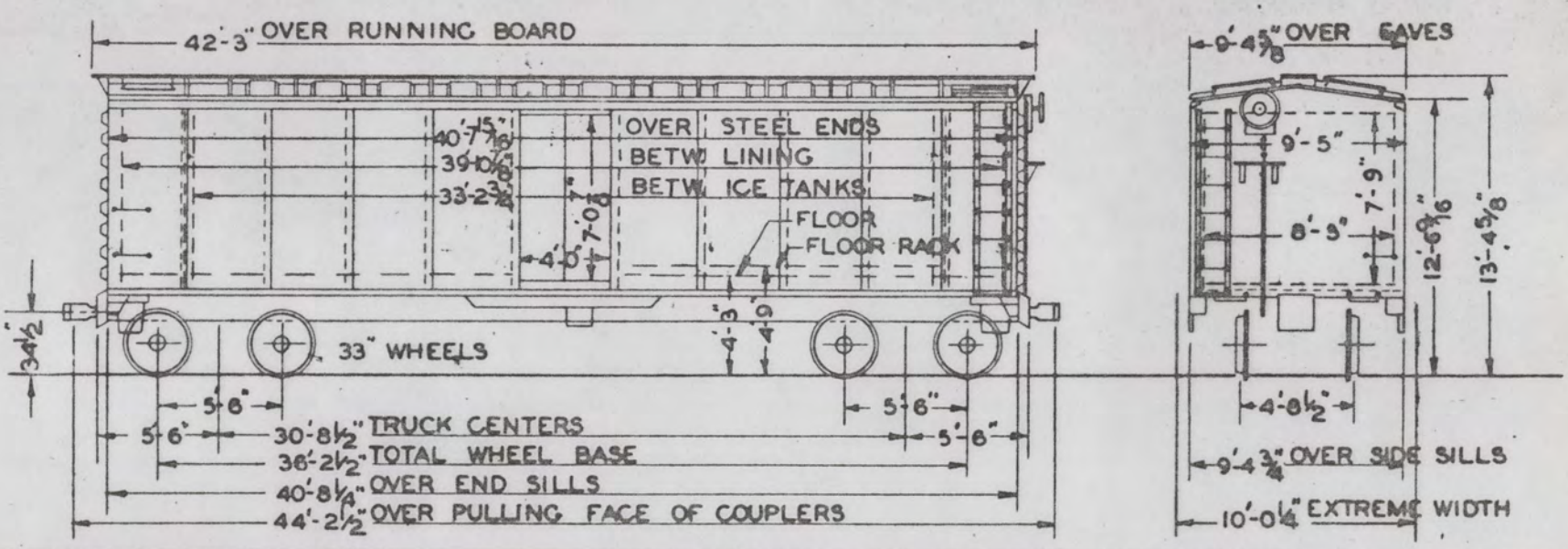
R-40-10

INDEX TO DRAWING

CLASS
BR-40-10

REFRIGERATOR CAR
80000 LBS CAPACITY

CAR NO'S.
901 – 950



LIGHT WEIGHT OF CAR	59000
CUBIC LOADING CAPACITY	1988
AVAILABLE LOADING HEIGHT	5'-10 3/8"
CAPACITY OF BOTH ICE TANKS	10000
CAPACITY OF BOTH ICE TANKS-HALF STAGE	5000
LOAD LIMIT	
CAPACITY	80000
UNDERFRAME	A.A.R. DESIGN-RIVETED
TRUCKS	SYMINGTON-TYPE XL, CHRYSLER FR-50
WHEELS	ONE WEAR WROUGHT STEEL
AXLES	5 1/2" X 10" PASSENGER D-33
COUPLER-TYPE E	RIGID SHANK
DRAFT GEAR-WESTINGHOUSE, PEERLESS, WOUGH GOULD NATIONAL M17, MINER A-22-X-B	
AIR BRAKES	AB-1-B
HAND BRAKES-AJAX, URECO, UNIVERSAL, EQUIPCO	
SIDE DOOR	MINER OR UNIVERAL FIXTURES
AIR CIRCULATING FAN-OVERHEAD ELEC.	PRECO AA3
INSULATION-FLOOR	HAIRINSUL
INSULATION-WALLS	DRY ZERO, HAIRSUL & BALSAM WOOD
INSULATION-ROOF	DRY ZERO, 1/2" FIBER BOARD

REFERENCE DRAWINGS	
GENERAL DESIGN	246-C-5800
STEEL SHEATHING	126-C-5801
UNDERFRAME	444-2723
AIR BRAKE ARRG'T.	154-2840
ICE TANK ARRG'T.	264-C-5818
INSULATION-WALLS	274-C-5822
INSULATION-WALLS	274-C-5823
INSULATION-ROOF	273-C-5825
INSULATION-FLOOR	274-2380
LETTERING	304-2845

NOTE:
50 CARS FROM SERIES 40001 – 44700 CLASS R-40-10 CONVERTED TO PASSENGER TRAIN SERVICE BY P.F.E. CO. IN 1953

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
BR-40-10	R-22

Group Index of Drawings

Cars Class R-40-10 Express

Group No. 02 - Heating and Ventilating

Preco Electric Fan - Model AA3

Drwg. No.	
024-2381	Fan Application
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023-2583	Fan Motor & Impeller Assembly
023-2584	Fan Panel Assembly
024-2586	Fan Duct Assembly
022-2588	Drive Support - Fan
023-2590	Fan Drive Wheel
021-2591	Inboard Bearing Fan
021-2601	Motor Hanger Assembly
021-2720	Screen - Fan

Group No. 11 - Axles and Wheels

113-CB-23969	Axles
111-C-1527	Marking for Solid Wrought Steel Wheels One-Wear Wrought Steel Wheels

Group No. 12 - Body - House

Sk. 1038	Corner Post (War Design)
123-2338	Floor Rack Holder - Equipco
122-2378	Coping Board
124-2388	Floor Rack Arrg't and Details
122-2585	Flashings
123-2728	Method of Securing Coping Board
124-2729	Wood Framing Arrg't and Details - End
122-C-967	Templates for Roofing, Flooring, etc.
121-C-5318	Doorway Flashing
122-C-5725	Threshold Plates
126-C-5801	Steel Sheathing & Framing
121-C-5833	Top Corner Connection
121-C-5848	Ceiling Support Bracket & Lock Washers
122-C-5856	Floor Rack Hinge & Butt

Group No. 12 - Body - House (Cont'd)

121-C-5861	Protection Plate
124-C-5869	Steel & End Framing - Wood Details - Dry Zero
124-C-5870	Steel & End Framing - Wood Details - Hairinsul & Balsam Wood
123-C-5871	Wood Framing Diagram - Side & End - Hairinsul & Balsam Wood
123-C-5872	Door Framing Wood Details
126-C-5874	Wood Framing Diagram - Side & End - Dry Zero
121-C-5877	Floor Rack Holder
121-C-5892	Door Threshold Strip
121-C-5897	Door Post
124-C-5905	Side Sill
124-C-5906	Side Plate
122-C-5907	Door Post
122-C-5908	Corner Post
123-C-5909	Intermediate Post
122-C-5910	Side Sheet at Door
122-C-5911	Side Sheet - Intermediate
122-C-5912	Side Sheet - Opposite Ladder Corner
122-C-5913	Side Sheet - Ladder Corner
123-C-5914	Side Frame - Steel Details

Group No. 15 - Brake Arrangement

154-2840	Air Brake Arrangement
153-C-5810	Hand Brake Arrangement - Ajax
153-C-5811	Hand Brake Arrangement - Universal
153-C-5812	Hand Brake Arrangement - Ureco
153-C-5813	Hand Brake Arrangement - Equipco
153-C-6001	Hand Brake Arrangement - Miner

Group No. 16 - Brake Details

Sk. 616	Forged Pins
163-2542	Brake Rod Jaws
162-2685	Brake Head Wear Plate - Servex
163-C-5315	Angle Cock Support
163-C-5808	Air Brake Details
161-C-141	Brake Lever Pins
161-C-4440	Brake Pipe Anchor - G.B.
161-C-4509	Brake Hanger - Loop Type - Schaefer

Group No. 16 - Brake Details (Cont'd)

161-C-4904	Brake Beam Hanger Cotter
161-C-5115	Bell Crank Chain
161-C-5488	Brake Pipe Clamp - Universal
161-C-5594	Brake Shoe Key
161-C-5718	Bottom Rod Guard
161-C-587	Brake Hanger Bracket Wearing Plate - Schaefer
162-C-5883	Brake Shoe
162-C-5934	Badge Plate - Brass
161-C-5573	Clevis - Miner
161-C-5161	Cylinder & Floating Lever Connection
161-C-5227	Connection Chain - Ureco
161-C-5656	Connecting Chain - Miner
161-C-5183	Hand Brake Connection & Clevis
161-C-5306	Hand Brake Rod
162-C-5859	Hand Brake Details
161-C-5902	Hand Brake Connecting Chain
161-C-5146	Lower Unit Pins
161-C-4266	Push Rod
161-C-5160	Truck & Cylinder Lever Connection
162-C-5919	Truck Lever - Light Weight - Schaefer
161-C-5920	Truck Lever Connection - Light Weight - Schaefer
162-C-10416	Brake Beam - Positive No. 18
162-C-9996	Double Economy Safety Guard (Chrysler FR-SD)
162-C-10020	Economy Safety Guard Double Type (Sym. X-L)

Group No. 18 - Doors, Gates & Fixtures

182-C-5863	Door Hinge
183-C-5896	Door Hook & Bumper - "Slam"
184-C-5814	Side Door - Insulation & Details
183-C-5880	Side Door - Application of Moulded Rubber Insulation
182-C-5881	Side Door - Steel Details
183-C-5893	Side Door Fastener Details - Miner
183-C-5894	Side Door Fastener Details - Universal - XL

Group No. 20 - Draft Gear

201-C-4097	Draft Gear Key
203-C-5588	Coupler - Type E, 6-1/4" x 8" Shank - Bottom Operated
202-C-5809	Coupler Release Rigging - Rotary
204-C-5816	Coupler Centering Device - Union
203-C-5817	Coupler Centering Device - Details - Union
203-C-5837	Coupler Centering Device - "Durable"

Group No. 20 - Draft Gear (Cont'd)

203-C-5838	Coupler Centering Device - Details - "Durable"
201-C-4281	Draft Gear Carrier
201-C-4793	Drawbar Follower Plate
204-C-5831	Striking Casting & Front Draft Gear Stop - Union Centering Device
204-C-5903	Striking Casting & Front Draft Gear Stop - "Durable" Centering Device
202-C-7615	Coupler Yoke
202-C-9385	Draft Key Retainer

Group No. 26 - Ice Tanks

Sk. 870	Grate Sections
Sk. 941	Methods of Repairs to Ice Grate Sections
Sk. 1136	Application of Hinged Half Stage Ice Grates
Sk. 1145	Hinged Half Stage Ice Grate Details
Sk. 1206	Application S.H. Grate Bars
261-2009	Special Bolts
261-2367	Floor Pan
263-2379	Plywood Templates - Ice Tank
263-2423	Drain Spout Application
262-2561	Drain Spout Pan
263-2563	Well Trap Assembly
263-2717	Ice Tank Details - Misc.
262-C-5207	Grate Spacers - P.F.E.
264-C-5818	Ice Tank - Equipco
264-C-5819	Ice Tank Details - Steel - Equipco
263-C-5820	Ice Tank Details - Steel - Equipco
262-C-5821	Ice Tank Details - Wood - Equipco
263-C-5824	Ice Tank - P.F.E.
262-C-5879	Ice Tank Screens
263-C-5937	Ice Tank Details - Steel - P.F.E.
263-C-5938	Ice Tank Details - Wood - P.F.E.
262-C-5939	Bulkhead Post Foot - P.F.E.
263-C-9707	Drain Spouts
261-C-9728	Drain Spout Wind Guard

Group No. 27 - Insulation

274-2380	Insulation Application - Floor
274-C-5822	Insulation - Side & End Walls - Dry Zero
274-C-5823	Insulation - Side & End Walls - Hairinsul & Balsam Wood
273-C-5825	Insulation - Roof - Alfol

Group No. 28 - Miscellaneous

283-2215	Placard Boards
281-2242	Re-Ice Card Holder
282-C-6010	Routing Card Board
282-C-9567	Defect Card Holder - Cheeper

Group No. 30 - Painting, Lettering & Numbering

303-C-741	3" Figures
303-C-951	1" x 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-10396	Union Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3919	7" Letters
304-C-9861	Lettering on Refrigerator Cars
303-C-10397	Stenciling for U.P. Medallion
303 - 2269	Stenciling - Roof

Group No. 32 - Roof

324-C-5815	Hatchway Arrangement
324-C-5841	Hatchway - Wood Framing
323-C-5842	Hatch Frame & Carlines
322-C-5843	Hatch Cover
323-C-5844	Hatch Plug
322-C-5845	Hatch Details - Cast
323-C-5846	Hatch Details - Forged
324-C-5935	Hatch Arrangement - Youngstown Hatch Frame
322-C-5936	Hatch Frame - Youngstown
323-C-5868	Roof Construction - Wood Details
324-2733	Solid Steel Roof

Group No. 34 - Safety Appliances

261-2009	Special Bolts
341-2019	G.T. Washers & Special Bolts
343-2660	Metal Running Board - Kerrigan
343-2661	Metal Running Board - Apex
343-2662	Running Board - End Section - Transco
343-2663	Running Board - Inter. Section - Transco
343-2664	Running Board - Transco
342-2666	Running Board Saddle - Details
342-2684	Brake Step - Morton
342-2686	Brake Step - Transco
341-C-4270	Running Board Bracket
342-C-5006	Brake Step Bracket
344-C-5188	Handholds
343-C-5847	Side & End Ladders & Brackets
342-C-5862	Sill Steps and Brackets
341-2841	Signal Lamp Bracket

Group No. 36 - Springs

361-C-9903	Truck Spring - Outer Coil (Chrysler FR-5D)
361-C-9904	Truck Spring - Inner Coil (Chrysler FR-5D)
361-C-9881	Truck Spring - Outer Coil (Sym. X-L)
361-C-9882	Truck Spring - Inner Coil (Sym. X-L)

Group No. 37 - Steel Ends

374-2368	Steel End Reinforcement Beam
373-2562	Steel End Patch
374-C-5802	Application - Dreadnaught Steel End
374-C-5834	Application - Buckeye Steel End
373-C-5803	Steel End - Dreadnaught
373-C-5835	Steel End - Buckeye
371-C-5849	Steel End - Filler Clips - Dreadnaught Steel End
372-C-5933	Steel End - Filler Clips - Buckeye Steel End
374 - 2368	Steel End Reinf. Beam

Group No. 42 - Trucks

423-2842	Center Pin - Locking
421-C-4715	Dust Guards
421-C-66	Journal Bearing
422-C-2566	Journal Bearing Wedge
422-C-3138	Journal Bearing Wedge
	Journal Box Lid - National
423-C-9875	Journal Box Lid - Symington
423-2843	Locking Center Pin Application

Group No. 42 - Trucks (Cont'd)

423-C-9892	Truck Arrg't (Chrysler - Type FR-50)
424-C-9893	Truck Bolster - Sym. Gould (Chrysler FR-50)
424-C-9895	Truck Side Frame - Sym. Gould (Chrysler FR-50)
423-C-9896	Dead Lever Bracket (Chrysler FR-5D)
424-C-9894	Spring Plank (Chrysler FR-5D)
423-C-9897	Bracket for Snubber (Chrysler FR-5D)
422-C-9900	Pin Swing Hanger (Chrysler FR-5D)
423-C-9899	Swing Hanger (Chrysler FR-5D)
423-C-9898	Friction Snubber Assembly (Chrysler FR-5D)
423-C-9998	Journal Box (Chrysler FR-5D)
423-C-9869	Truck Arrg't (Sym. X-L)
424-C-9872	Journal Box (Sym. X-L)
422-C-9891	Aligning Teeth Insert (Sym. X-L)
422-C-9884	Liners (Sym. X-L)
423-C-9873	Dead Lever Fulcrum Bkt. (Sym. X-L)
423-C-9874	Snubber Shoe (Sym. X-L)
423-C-9876	Bolster Equalizing Chair (Sym. X-L)
423-C-9877	Bolster Brake Hanger Brkt. (Sym. X-L)
423-C-9871	Truck Side Frame (Sym. X-L)
424-C-9870	Truck Bolster (Sym. X-L)
421-C-9878	Journal Box Retaining Plate (Sym. X-L)
421-C-9879	Journal Box Bracket (Sym. X-L)

Group No. 44 - Underframe

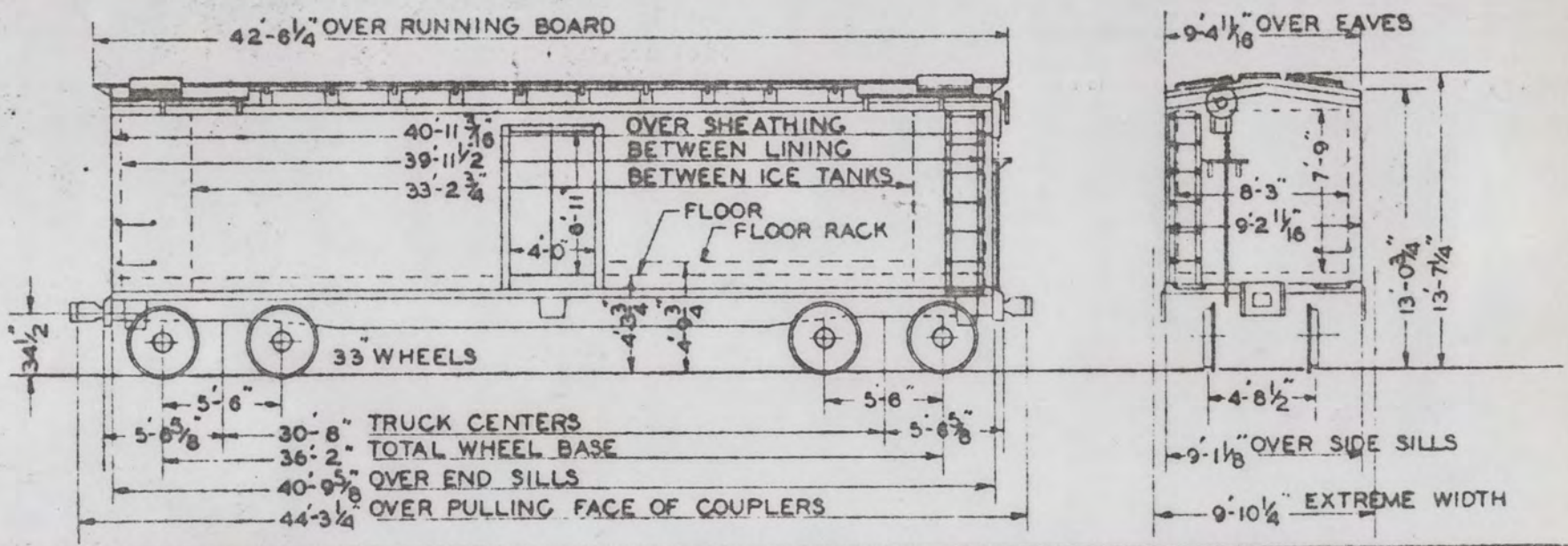
Sk. 1249	Bolster Diaphragm Repairs
443-2261	Body Center Plate
443-2335	Diagonal Brace
443-2347	Wood Details - Underframe
441-2564	Repair Ends for Diagonal Braces
444-2723	Underframe Arrangement
446-2724	Underframe Details
443-C-5827	Push Pole Pocket
443-C-5828	Push Pole Pocket
442-C-5830	Side Bearing Brace
444-C-5832	Bolster Center Filler

CLASS
R-30-11-9
R-30-12-9
R-30-13-9

CLASS
R-30-12-16
R-30-13-16
R-30-14-16

REFRIGERATOR CAR
70000 LBS. CAPACITY
MEAT SERVICE

CAR NO'S
85001-85100



LENGTH INSIDE OF LINING	39'-11 1/2"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-3"
HEIGHT TOP OF FLOOR TO CEILING	7'-9"
CU. CAP BETWEEN ICE TANKS ABOVE FLOOR RACK	1988 CU. FT.
CAP. OF BOTH ICE TANKS	10000 LBS.
WT. OF EACH TRUCK	6800 "
LT. WT. OF CAR COMPLETE	55000 "
UNDERFRAME	BETTENDORF
SUPERSTRUCTURE	WOOD SHEATHING - POST & BRACES

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P.F.E. CO.	100	1937-41

REFERENCE DRAWINGS

GENERAL DESIGN	P.F.E. SK 617
" "	" " 990
MEAT RACKS	" " 620

AXLE - JOURNALS	5 X 9
AIRBRAKE	K C - 1012
BRAKE BEAMS	CRECO #3
" SUPP & SU. CHAIRS	CRECO
" LEVER CONNECTIONS	SCHAEFER
COUPLERS	TYPE-D
" YOKES	WROT IRON & CAST ST.
" RELEASE RIGGING	ROTARY
" CENTERING DEVICE	U.M.R.
DRAFT GEARS	FRICTION
DOOR FASTENERS	MINER
" INSULATION	"
HATCH PLUG	HAIRFELT
INSULATION-ROOF SIDES & ENDS	VARIOUS
" FLOOR	"
ROOF	FLEXIBLE OUTSIDE METAL
TRUCK BOLSTERS	CAST STEEL
" SIDE FRAMES	" "
" ROLLER DEVICE	BARBER
WHEELS	CAST IRON 33

NOTE:
CARS IN SERIES 85060-85080 ARE EQUIPPED WITH SOLID STEEL ROOF, STEEL FRAME SUPERSTRUCTURE AND AB BRAKE.

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-30-9	R-2

Group Index of Drawings
for
General Repair Cars Class R-30-9 & R-40-9

Group No. 11 - Axles and Wheels

111-C-44	Axles 5" x 9"
C-2723	Wheels - Cast Iron

Group No. 12 - Body House

Sk. 524	Door Threshold Application
Sk. 529	End Sheathing Bands
Sk. 548	Side Framing Details
Sk. 549	Body Tie Rods
Sk. 550	Body Tie Straps
Sk. 551	Framing Diagram
Sk. 555	Flashings
Sk. 556	Sub Sills
Sk. 559	Door Hood
Sk. 562	Floor Rack Hinges
Sk. 564	Floor Racks
Sk. 590	Sheathing Angle
Sk. 592	Floor Rack Stop
Sk. 628	End Post Brace
Sk. 1245	Floor Rack Holder - Azee
122-2183	End Post Reinforcement
123-2186	Side Steel Frame
123-2201	Plywood Templates - Sheathing (Harborite)
123-2207	Bolt Head Locks
124-2214	Framing Arrangement
123-2268	Wood Framing Details - Side
122-2271	Coping Board & Filler
123-2272	End Cross Bracing
122-2286	End Reinforcing Beam
123-2338	Floor Rack Holder - Equipco
123-2371	Plywood Templates - Sheathing (Vert. Grain)
124-2374	Floor Rack Arrangement & Details
122-2391	Door Framing Details
122-2393	Method of Repairing Waterproof Floor
122-C-967	Templates for Roofing, Flooring & Siding
C-3145	Post Pocket
121-C-4831	Blind Flooring Angle Support
121-C-5318	Doorway Flashing
121 -2389	Threshold Plate
122 -2254	Post Pocket & Alternate

Group No. 15 - Brake Arrangement

Sk. 545	Hand Brake Arrangement - Ajax
Sk. 576	Hand Brake Arrangement - Equipco
Sk. 577	Hand Brake Arrangement - Miner

Group 15 (Cont'd)

Sk. 578	Hand Brake Arrangement - Universal
Sk. 579	Hand Brake Arrangement - Ureco
Sk. 613	Hand Brake Arrangement - Klasing
Sk. 816	Details and Application of AB Brakes (R-30-11, 12 & 14)
Sk. 817	Details and Application of AB Brakes (R-30-13 & R-40-2)

Group 16 Brake Details

162-2667	Brake Beam Support Chairs - Creco
Sk. 528	Retainer Pipe Clamp
Sk. 581	Angle Cock Support
Sk. 586	Piping Arrangement (R-30-13)
Sk. 587	Piping Arrangement (R-30-12)
Sk. 616	Forged Pins
161-C-4520	Hand Brake Connecting Chain
162-C-4904	Brake Hanger Cotter
161-C-5115	Bell Crank Chain
161-C-5229	Bell Crank Bracket
163-C-5359	Cylinder & Floating Levers
162-C-5360	Badge Plate
162-C-5883	Brake Shoes (Duplane)
162-C-6443	Brake Hanger Bracket Wear Plate
162-C-9786	Brake Hanger Loop Type
162-C-9866	Brake Beam (Positive)
162-C-10172	Adjustable Type Chair (Creco 4 point support)
162-C-10416	Brake Beam No. 18 (Positive)

Group 18 Doors, Gates & Fixtures

Sk. 569	Side Door
183-C-4869	Side Door Fastener Details

Group 20 Draft Gears

Sk. 573	Coupler Release Rigging Imperial Type B
201-C-4314	Draft Key Retainer

Group 24 General Design

Sk. 617	General Design

Group 26 Ice Tanks

Sk. 515	Bulkhead Post Feet
Sk. 530	Bulkhead Corner Strip
Sk. 554	Ice Grate
Sk. 554-1	Ice Grate (Modified)
Sk. 558	Ice Tank
Sk. 565	Ice Tank Details
Sk. 574	Floor Pan
Sk. 718	Ice Grate
Sk. 725	Ice Tank Details
Sk. 727	Post Feet
Sk. 728	Ice Tank Screens

Group 26 Ice Tanks (Cont'd)

Sk. 761	Ice Tank
Sk. 1147	Hinged Stage Ice Grate Arrangement
Sk. 1148	Hinged Half Stage Grates
Sk. 1149	Hinged Half Stage Grate - Detail
Sk. 1201	Modified Screens & Supports
264-2266	Drain Spout Application
264-2267	Bottom Pan, Drain Spout and Guard
261-2277	Sub Sill Drip Pan
263-2373	Hinged Stage Ice Grate - Arrangement
261-2394	Ice Grate
261-2395	Well Trap Extension & Filler Plate
C-3012	Ice Grate Tie Plate
263-C-9707	Drain Spout
261-C-9728	Drain Spout Wind Guard

Group 27 Insulation

276-2185	Insulation Application

Group 28 Miscellaneous

282-C-6150	Defect Card Holder - Real
282-C-9567	Defect Card Holder - Cheeper

Group 30 Painting, Lettering & Numbering

304-2100	Painting, Lettering and Numbering
303-C-10396	Union Pacific Medallion
303-2269	Stenciling - Roof
303-C-741	3" Figures
303-C-951	1" and 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3918	7" Letters
303-C-3919	7" Letters
303-C-10397	Stenciling for U.P. Medallion

Group 32 Roof

Sk. 487	Hatch Frame Casing
Sk. 552	Hatchway Arrangement

Group 32 Roof (Cont'd)

Sk. 553	Hatch Plug
Sk. 557	Upper Framing
Sk. 572	Hatchway Lining
Sk. 686	Hatch Frame Details
Sk. 687	Hatch Plug Framing
Sk. 688	Hatch Plug Cover Plate
Sk. 689	Hatch Hinges
Sk. 690	Hatch Cover Details
Sk. 691	Hatch Plug Bumper Rail & Details
Sk. 692	Hatch Lever Fulcrum Backing Plate
Sk. 693	Hatch Plug Hinge Butt Angle and Backing Plate
Sk. 694	Hatch Frame Casing
Sk. 695	Murphy Flexible Roof & Details
Sk. 719	Plywood Templates - Ceiling
Sk. 732	Hatch Plug Framing
Sk. 733	Hatch Plug Framing
324-2252	Hatch Closure Arrangement
323-2253	Hatch Closure Detail
323-2376	Running Board Securement
323-C-2352	Roof Malleable Iron Details
323-C-2353	Roof Steel Details
C-4222	Hatch Cover & Plug
323-C-4822	Murphy Flexible Roof

Group 34 Safety Appliances

Sk. 543	Ladders & Brackets
Sk. 580	Brake Step
Sk. 708	Runboard & Details
341-2041	Side Ladder (P.F.E. Modified)
341-2044	Side Ladder (Wine)
341-C-4270	Running Board Brackets
341-C-4939	Sill Steps
344-C-5188	Handhold

Group 42 Trucks

Sk. 482	Spring Planks (with Bettendorf)
Sk. 575	Spring Planks (A.A.R. Type)
Sk. 700	Column Guide Wearing Channels
423-2247	Packing Retainers - Holdrite
422-C-1897	Truck Roller Seat and Roller
423-C-2549	Truck Bolster
423-C-5065	Truck Side Frame
422-C-5485	Journal Box Lid & Pin
422-C-5623	Journal Box Lid & Pin
422-C-5924	Journal Box Lid & Rivet
423-C-7510	Truck Side Bearing

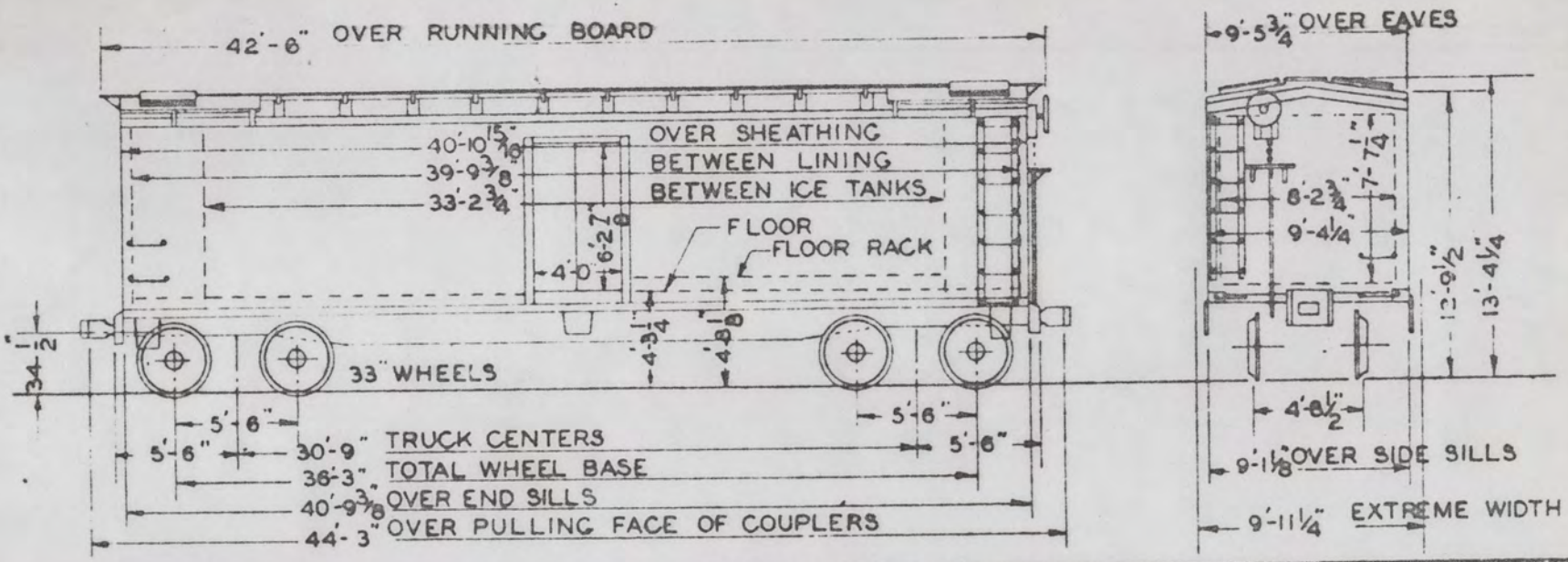
Group No. 44 - Underframes

Sk. 421	Bolster Top Cover Plate
Sk. 422	Bolster Bottom Cover Plate
Sk. 527	Side Sill Anchor
Sk. 542	Push Pole Pocket
Sk. 546	Reinforced Body Bolster
Sk. 589	Body Bolster Diaphragm
Sk. 593	Application of Diagonal Braces
441-2121-	Side Sill Reinforcement
C-1469	Body Center Plate
C-2551	Body Side Bearing
C-2340	Underframe (R-30-11)
C-2341	Underframe Details (R-30-11)
C-2772	Underframe (R-30-12)
C-2773	Underframe Details (R-30-12)
C-3524	Underframe Details (R-30-12)
C-3525	Underframe (R-30-13)
C-3174	Underframe Details (R-30-13)
C-3700	Underframe (R-30-14)
C-3696	Underframe Details (R-30-14)
C-3701	Underframe Details (R-30-14)
C-4471	Underframe (R-40-2)
C-4472	Underframe Details (R-40-2)
444-2655	Reinforced Body Bolster

CLASS
R-40-8

REFRIGERATOR CAR
75000 LBS CAPACITY

CAR NO'S
90001-91021



LENGTH INSIDE OF LINING	39'-9 3/8"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-2 3/4"
HEIGHT TOP OF FLOOR TO CEILING	7'-7 1/4"
CU. CAP. BETWEEN ICE TANKS ABOVE FLOOR RACK	1974 CU. FT.
CAP. OF BOTH ICE TANKS	10600 LBS.
WT. OF EACH TRUCK	7180 LBS.
LT. WT. OF CAR COMPLETE	58300 LBS.
UNDERFRAME	R.R. DESIGN BUILT UP TYPE
SUPERSTRUCTURE	WOOD SHEATHING - STEEL POST & BRACES

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P.F.E. CO.	400	1931-32

CARS REBUILT & RENUMBERED FROM SER. 1-13219 TO 90001-91021 IN 1931-32.

REFERENCE DRAWINGS
GENERAL DESIGN C-5300

AXLE - JOURNALS	5" X 9"
AIR BRAKE	KC 1012
BRAKE BEAMS SUPP. & SLI. CHAIRS	CRECO #3
COUPLERS	TYPE-D
" YOKE	CAST STEEL
" RELEASE RIGGING	ROTARY
" CENTERING DEVICE	U.M.P.
DRAFT GEARS	FRICTION
HAND BRAKE	POWER
INSULATION - ROOF S. & E. WALLS	
" FLOOR	
" DOOR	
ROOF	FLEXIBLE OUTSIDE METAL
TRUCK BOLSTERS	CAST STEEL
" SIDE FRAME	" "
" ROLLER DEVICE	BARBER
WHEELS	CAST IRON 33"

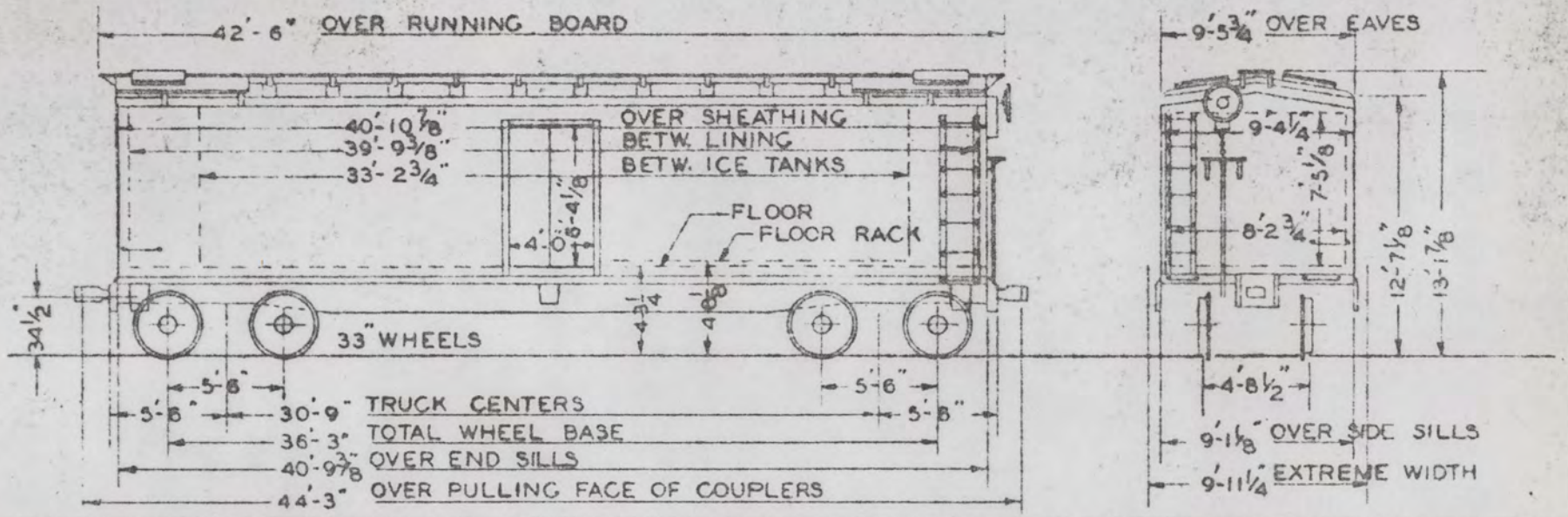
Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-8	R-13

CLASS
R-40-4

REFRIGERATOR CAR
75000 LBS. CAPACITY

CAR NO'S
71273 - 71300
71359 - 71400
71429 - 71500
71586 - 71953



LENGTH INSIDE OF LINING	39'-9 3/8"
" BETWEEN ICE TANKS	33'-2 3/4"
WIDTH INSIDE OF LINING	8'-2 3/4"
HEIGHT TOP OF FLOOR TO CEILING	7'-5 1/8"
CU. CAP BETWEEN ICE TANKS ABOVE FLOOR RACK	1918 CU. FT.
CAP OF BOTH ICE TANKS	10600 LBS
WT. OF EACH TRUCK	A.R.A. MODIFIED 7180 LBS
LT. WT. OF CAR COMPLETE	57600 LBS
UNDERFRAME	R.R. DESIGN - STEEL BUILT UP
SUPERSTRUCTURE	WOOD SHEATHING STEEL POST & BRACES

CAR BUILDER	NO. CARS BUILT	YEAR BUILT
P.F.E. CO.	510	1930-31

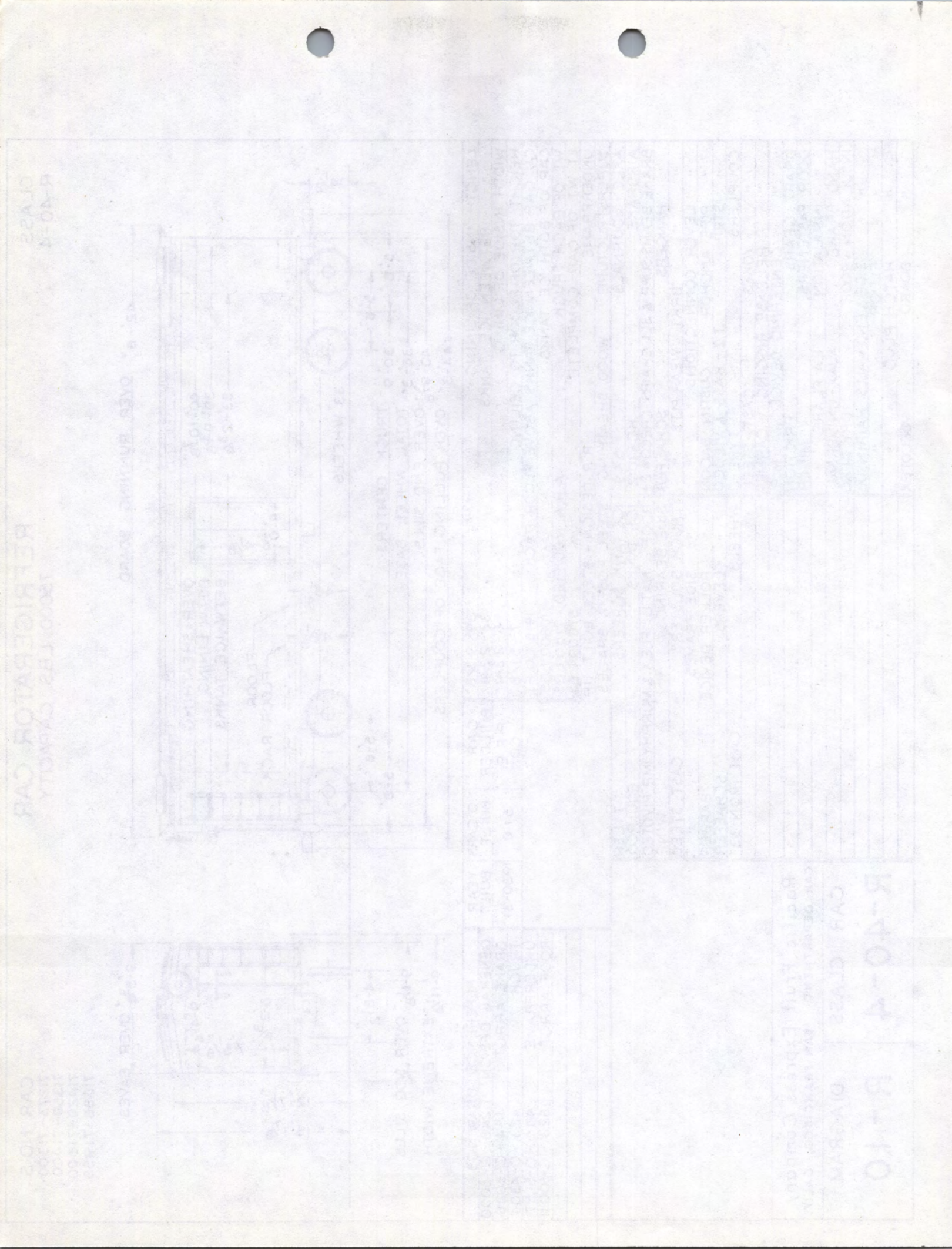
REFERENCE DRAWINGS	
GENERAL DESIGN	246 - C-5000
BRAKE ARRGT.	154 - C-5026
TRUCK	423 - C-4304
UNDERFRAME	446 - C-5157
ROOF ARRGT.	323 - C-5010-11

AXLE - JOURNALS	5X9"
AIRBRAKE	KC-1012
BRAKE BEAMS-SUPP & SLI. CHAIRS	CRECO # 2+
" HANGERS	SCHAEFER
" " BRKT. WEAR PLTS.	"
" LEVER CONNECTIONS	"
" PIPE ANCHOR	GUSTIN BACON
" STEP	TZ-KASS & VILOCO
COUPLERS	TYPE-D
" YOKES	CAST STEEL
" RELEASE RIGGING	CARMER
" CENTERING DEVICE	U.M.P
DRAFT GEARS	FRICTION
DOOR FASTENERS	MINER
" INSULATION	LA FLARE "
HAND BRAKE	AJAX-UNIVERSAL
INSULATION - ROOF	DRY ZERO
" SIDE & END WALLS	HAIRINSUL
" FLOOR	"
" HATCH PLUG	"
" BOARD	CELOTEX

ICE TANK SCREENS	TYLER
ICE TANKS	EQUIPCO
ROOF	NAT'L. FLEX. & MURPHY IMP. PIVOTED
SIDE BEARINGS	WINE
TRUCK BOLSTERS	CAST STEEL
" SIDE FRAMES	" "
" ROLLER DEVICE	BARBER
" LEVERS	SCHAEFER
WHEELS	CAST IRON 33"

Pacific Fruit Express Company
CAR DEPARTMENT SAN FRANCISCO, CALIF.

CAR CLASS	DIAGRAM
R-40-4	R-10



GROUP INDEX TO DRAWINGS FOR PFE GENERAL
REPAIR CARS CLASS R-30-4&8 and R-40-4&8

Drwg. No.	Group No. 12 - Body - House
Sk. 555	Flashings
123-C-5016	Floor Flashing at Bulkhead (Original Design)
Sk. 559	Door Hood
121-C-5217	Door Hood (Original Design)
Sk. 1245	Floor Rack Holder
122-2338	Floor Rack Holder
121-C-4539	Floor Rack Holder (Original Design)
121-C-4545	Floor Rack Holder (Original Design)
121-2158	Corner Post Repairs
123-2207	Bolt Head Locks
124-2374	Floor Rack Arrangement and Details
123-C-5005	Floor Rack and Details
122-C-5015	Floor Rack Hinge and Butt
121-2384	Door Protection Plate
122-2385	End Reinforcement Beam
123-2386	Wood Framing Details - Side
121-2387	Door Filler Angle
121-2389	Threshold Plate
121-C-5031	Threshold Plate (R-40-4)(Original Design)
121-C-5341	Threshold Plate (R-40-8)(Original Design)
122-C-967	Templates - Flooring, Roofing, etc.
122-C-4820	Angle Iron Sheathing Strips
121-C-4831	Blind Floor Angle Support
121-C-4862	Top Corner Plates
121-C-5106	Door Threshold Strip (Original Design)(R-40-4)
121-C-5317	Door Threshold Strip (Original Design)(R-40-8)
121-C-5021	Coping Board (Original Design)
124-C-5153	Side and End Framing - Wood (R-40-4)
126-C-5159	Side and End Framing Details - Steel (R-40-4)
126-C-5301	Side and End Framing Details - Steel (R-40-8)
124-C-5307	Side and End Framing - Wood (R-40-8)
121-C-5318	Metal Threshold Plate (R-40-8)(Original Design)
123-C-5319	Framing Diagram

	Group No. 15 - Brake Arrangement
Sk. 816	Air Brake Arrangement AB (R-30-11-4&8)
Sk. 817	Air Brake Arrangement AB
154-C-5026	Air Brake Arrangement (K-2)
153-C-5022	Hand Brake Arrangement - Ajax (R-40-4)
153-C-5111	Hand Brake Arrangement - Universal (R-40-4)
153-C-5226	Hand Brake Arrangement - Ureco (R-40-4&8)
153-C-5218	Hand Brake Arrangement - Ajax (R-40-8)
153-C-5224	Hand Brake Arrangement - Universal (R-40-8)

Group No. 16 - Brake Details

Sk. 616	Forged Pins
162-2667	Brake Beam Support Chairs - Creco
163-C-4388	Angle Cock Supports (R-40-4)
163-C-5315	Angle Cock Supports (R-40-8)
162-C-4710	Badge Plate (R-40-4)
162-C-5323	Badge Plate (R-40-8)
162-C-5360	Badge Plate (R-40-4&8)
161-C-5229	Bell Crank Bracket - Ajax, Universal & Ureco
163-C-4894	Brake Details - K-2
161-C-141	Brake Lever Pins
162-C-9786	Brake Hanger - Loop Type
162-C-10416	No. 18 Positive Brake Beam
162-C-5883	Brake Shoe
162-C-8919	Brake Shoe Key
161-C-7073	Bottom Rod Guard
162-C-4790	Cylinder & Floating Levers (R-40-4)
161-C-5161	Cylinder & Floating Lever Connections
162-C-5299	Cylinder & Floating Levers (R-40-8)
161-C-5183	Hand Brake Connection
161-C-4520	Hand Brake Connection Chain
162-C-4266	Push Rod
161-C-603	Push Rod (Original Design)
161-C-5162	Release Rod
161-C-2682	Reservoir Bracket
161-C-5160	Truck & Cylinder Lever Connection
161-C-4381	Truck Lever (R-40-4)
162-C-2951	Truck Lever (R-40-8)
162-C-5298	Truck Lever (R-40-8)
161-C-4276	Truck Lever Connection
161-C-4380	Truck Lever Connection
161-C-4995	Truck Lever Connection
162-C-6444	Truck Lever Connection
163-C-5514	Bottom Rod Guard
162-C-10172	Adjustable Type Chair (Creco) 4 point support
162-C-3834	Brake Beam Support & Bracket
162-C-7326	Brake Beam Support and Sliding Chair
163-C-6215	Brake Balancer Application - "Wine"
163-C-6218	Brake Balancer Anchor - "Wine"
163-C-6219	Brake Balancer Connection - "Wine"

Ajax Hand Brake

161-C-5116	Axle
162-C-3920	Bell Crank
161-C-5115	Bell Crank Chain
161-C-3935	Bell Crank Jaw (R-40-4)
161-C-3934	Bell Crank Pin
161-C-3937	Bell Crank Bracket Pin
161-C-5114	Brake Drum Chain (R-40-4)
161-C-5285	Brake Drum Chain (R-40-8)
163-C-4405	Brake Wheel
161-C-5284	Clevis (R-40-8)
163-C-3922	Gear and Drum
162-C-5120	Housing, Front

Group No. 16 - Brake Details (Cont'd)

Ajax Hand Brake (Cont'd)

162-C-5122	Housing, Back
161-C-4513	Housing Supports & Brake Rod(R-40-4)
161-C-5306	Housing Supports & Brake Rod(R-40-8)
161-C-5118	Pawl
162-C-4414	Rivets, Nuts, etc.
162-C-5119	Shaft Pinion & Ratchet
161-C-4957	Top Eye
161-C-5117	Trip Cam
162-C-5121	Trip Handle

Universal Hand Brake

162-C-5128	Back Shaft Bearing & Chain Anchor
162-C-5126	Brake Wheel
162-C-5127	Cam Lever
163-C-5129	Combined Chain Guide, Ratchet Wheel & Brake Shaft
162-C-5124	Connecting Jaw & Pins
163-C-5131	Face Casting
163-C-5125	Frame & Front Plate
162-C-5132	Hand Brake Chains
163-C-5123	Hand Brake Details
161-C-5146	Pins, Lower Unit
163-C-5130	Sheave Segment
163-C-5113	Upper Unit Assembly

Ureco Hand Brake Type B-A

163-C-5140	Bell Crank
162-C-5135	Bushings
161-C-5144	Clevis
161-C-5227	Connecting Rod & Chain
162-C-5137	Hand Wheel
163-C-5142	Housing
161-C-5228	Housing Supports
162-C-5133	Pawl
161-C-5143	Pawl Release
163-C-5138	Pinion & Chain Drum
161-C-5146	Pins - Lower Unit
162-C-5134	Release Handle
161-C-5145	Sheave Wheel
162-C-5136	Shaft Pinion & Ratchet
162-C-5139	Upper Chain & Details
164-C-5141	Upper Unit Assembly

Group No. 18 - Doors, Gates & Fixtures

183-C-4869	Side Door Fastener & Details
181-C-5018	Side Door Hinge
184-C-5003	Side Door, Insulation & Details (R-40-4)
184-C-5324	Side Door, Insulation & Details (R-40-8)

Group No. 20 - Draft Gear

201-2382	Draft Key Retainer Lock
204-C-4899	Application of Coupler Centering Device
202-C-4988	Carmer Coupler Release Rigging (R-40-4)
202-C-4507	Cheek Plate - Farlow Att.
203-C-3454	Coupler Centering Device
203-C-4891	Coupler Horn Striking Casting
203-C-2589	Coupler Type D (R-40-4)
202-C-5468	Coupler Type D (R-40-8)
202-C-4291	Coupler Yoke
202-C-3346	Coupler Yoke Farlow Att.
201-C-4895	Draft Gear Carrier
201-C-4097	Draft Gear Key, Short Key
201-C-4314	Draft Key Retainer
203-C-5004	Draft Rigging
203-C-4477	Draft Rigging - Farlow Att.
201-C-4793	Drawbar Follower Plate
201-C-3349	Spring Rod for Cardwell Gear
202-C-3081	Follower Block - with Farlow Att.

Group No. 24 - General Design

246-C-5000	General Design (R-40-4) - Original Design
246-C-5300	General Design (R-40-8) - Original Design

Group No. 26 - Ice Tanks

Sk. 574	Floor Pan
262-C-3755	Floor Pan (Original Design)
263-2563	Well Trap Assembly
263-C-4998	Well Trap Application R-40-4 (Original Design)
263-C-5314	Well Trap Application R-40-8 (Original Design)
261-2277	Sub Sill Drip Pan
262-C-5096	Post Foot Brackets - Equipco
261-C-3757	Grate Rest Supports - Equipco
262-C-5097	Grate Rest Clips - Equipco

Group No. 26 - Ice Tanks (Cont'd)

263-C-4989	Ice Tank - Equipco (R-40-4)
263-C-5311	Ice Tank - Equipco (R-40-8)
263-C-5095	Ice Tank Details, Steel - Equipco (R-40-4)
263-C-5312	Ice Tank Details, Steel - Equipco (R-40-8)
262-C-3707	Ice Tank Grate Bars - Equipco
263-C-5025	Ice Tank Details, Wood - Equipco
262-C-4543	Ice Tank Details - Equipco
262-C-3310	Ice Tank Screens - Equipco
263-C-5023	Ice Tank Lining
263-C-5213	Ice Tank P.F.E. (R-40-4)
263-C-5309	Ice Tank P.F.E. (R-40-8)
263-C-5214	Ice Tank Steel Details - P.F.E. (R-40-4)
263-C-5310	Ice Tank Steel Details - P.F.E. (R-40-8)
262-C-5215	Ice Tank Cast Details - P.F.E.
263-C-5216	Ice Tank Wood Details - P.F.E.
262-C-5219	Ice Tank Screens - P.F.E.
262-C-5207	Ice Tank Grate Spacers - P.F.E.
262-C-5313	Well Trap & Cap - Equipco (R-40-8)
262-C-5308	Well Trap & Cap - R.R. Design (R-40-8)
262-C-3309	Well Trap & Cap - Equipco (R-40-4)
262-C-3761	Well Trap & Cap - R.R. Design (R-40-4)

Group No. 27 - Insulation

276-2375	Insulation Application
272-C-5017	Applic. of Waterproof Felt Top of Floor (Original Design)
273-C-4994	Insulation, Cork Floor (R-40-4) - Original Design
272-C-4999	Insulation, Cork Floor - Original Design
273-C-5338	Insulation, Cork Floor (R-40-8) - Original Design
274-C-5013	Insulation, Flaxlinum, Roof (R-40-4) - Original Design
274-C-5014	Insulation Bd.-Roof, Side & End Walls(R-40-4)Original Design
274-C-5155	Insulation,Flaxlinum,Side & End Walls(R-40-4)Original Design
273-C-4993	Insulation,Hairinsul, Floor (R-40-4) - Original Design
274-C-5156	Insulation,Hairinsul, Side& End Walls(R-40-4)Original Design
273-C-5107	Metal Flashing at Door Post (R-40-4) - Original Design
274-C-5303	Insulation Bd.-Roof,Side & End Walls(R-40-8)-Original Design
274-C-5303	Insulation Bd.-Roof,Side & End Walls(R-40-8)-Original Design
274-C-5331	Insulation,Flaxlinum,Roof (R-40-8) - Original Design
273-C-5337	Insulation,Hairinsul,Floor (R-40-8) - Original Design
274-C-5304	Insulation,Flaxlinum,Side & End Walls(R-40-8)-Original Desig
274-C-5305	Insulation,Hairinsul,Side & End Walls(R-40-8)Original Design
274-C-5381	Insulation,Balsam Wool,Side&End Walls(R-40-8)Original Design

Group No. 28 - Miscellaneous

282-C-6150	Defect Card Holder - Real
282-C-9567	Defect Card Holder - Cheeper

Group No. 30 - Painting, Lettering & Numbering

303-C-741	3" Figures
303-C-951	1" x 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3072	Southern Pacific Medallion
303-C-10396	Union Pacific Medallion
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3919	7" Letters
304-2100	Lettering on Refrigerator Cars
303-C-10397	Stenciling for U.P. Medallion
303-2269	Stenciling - Roof

Group No. 32 - Roof

324-2252	Hatchway Arrangement
323-2253	Hatchway Details
323-2376	Running Board Securement
321-C-720	Tie Rod
323-C-5011	Roof - National Flexible
323-C-5010	Roof - Murphy Improved
324-C-5340	Wood Details - Upper Framing (R-40-8)
323-C-5225	Wood Details - Upper Framing (R-40-4)
321-C-5032	Ridge Pole Knee Brace
322-C-5326	Hatchway Lining (R-40-8)
321-C-2816	Hatchway Lining (R-40-4)
323-C-5060	Applic. of Paper Between Roofs (Original Design)
322-C-5007	Carline - Pressed Steel
322-C-5024	Carline - Z.U. Type
321-C-5063	Hatch Frame Braces (R-40-4)
321-C-5339	Hatch Frame Braces (R-40-8)
322-C-2852	Hatch Frame Casing (R-40-4)
322-C-5325	Hatch Frame Casing (R-40-8)
324-C-5028	Hatch Framing (R-40-4)
323-C-5186	Hatch Framing Details R-40-4)
323-C-4548	Hatch Plugs
324-C-3202	Hatch Cover & Plug (R-40-4)
323-C-2353	Hatch Cover & Plug, Steel Details (R-40-4)
323-C-2352	Hatch Cover & Plug, Mall. Details (R-40-4)
324-C-5328	Hatch Framing - Wood
323-C-5329	Hatch Framing Details - Wood
324-C-5330	Hatch Cover & Plug

Group No. 34 - Safety Appliances

341-C-5006	Brake Step Brackets
343-C-5188	Handholds
343-C-5193	Side and End Ladders
343-C-5108	Metal Brake Steps - 12" Viloco
343-C-5109	Metal Brake Steps - 12" Kass
343-C-5110	Metal Brake Steps - 12" T.Z.
342-C-5008	Running Board & Details
341-C-4270	Running Board Brackets
341-C-4939	Sill Steps
341 -2763	Metal Brake Step-Apex

Group No. 36 - Springs

361-C-2617	Draft Spring Cardwell
361-C-533	Spring Stamping
361-C-63	Truck Spring
362-C-6007	Truck Spring Snubber

Group No. 42 - Trucks

422-C-1897	Barber Roller Device
421-C-4264	Center Pin
421-C-4715	Dust Guard
421-C-66	Journal Bearing
422-C-2566	Journal Bearing Wedge
422-C-3138	Journal Bearing Wedge
422-C-5103	Journal Box Lid Ry. St. Spr. Co.
422-C-4271	Spring Plank
423-C-4304	Truck
423-C-4288	Truck Bolster, Buckeye
423-C-4289	Truck Bolster, Scullin
421-C-3741	Truck Side Bearing
423-C-4996	Truck Side Frame, Bettendorf
423-C-5065	Truck Side Frame, Columbia Steel
423-C-8450	Truck Side Frame
423-C-7510	Truck Side Bearing
Sk. 575	Spring Plank
Sk. 700	Wearing Channel
423-C-7318	Journal Box Lid
423-2247	Spring Packing Retainers
421-C-4027	Dead Lever Fulcrum
421-C-4715	Dust Guard

Group No. 44 - Underframe

446-C-5157	Underframe
446-C-5154	Underframe Details
443-C-5223	Side, Intermediate & End Sub Sills
441-C-4903	Shoulder Bolt
443-C-5194	Push Pole Pockets
441-C-4478	Center Sill with Farlow Att.
441-C-4480	Body Side Bearing
441-C-4481	Body Center Plate
443-C-4483	Body Center Brace Casting - Farlow Att.
441-C-4853	Combined Bolster Center Casting & Rear Drawbar Stop

GROUP INDEX OF DRAWINGS

FOR

WESTERN PACIFIC CARS

Drwg. No.	Group No. 02 - Heating & Ventilating
024-2672	Fan Application (AA-15)
022-2767	Drive Support - Fan
022-2764	Guard & junction box assembly
022-2768	Release Lever Assembly
021-2765	Motor Hanger Assembly
021-2766	Inboard Bearing - Fan
024-2770	Fan Assembly

Group No. 12 - Body House

123-2428	Threshold Application
SK-548	Wood Framing
SK-555	Flashings
SK-556	Sub Sills
SK-562	Floor Rack Hinges
123-2338	Floor Rack Holder - Equipco
SK-590	Sheathing Angle
SK-628	End Post Brace
SK-1245	Floor Rack Holder - Azee
122-2183	End Post Reinforcement
123-2186	Side Steel Frame
124-2214	Framing Arrangement
123-2268	Wood Framing Details - Side
122-2271	Coping Board & Fillers
123-2272	End Cross Bracing
122-2286	End Reinforcing Beam
124-2374	Floor Rack Arrgt. & Details
121-2389	Threshold Plate

Group No. 16 - Brake Details

160-2369	Retainer Valve Bracket
162-C-6443	Brake Hanger Bracket Wear Plate
162-C-9786	Brake Hanger Loop Type
162-C-10172	Adjustable Type Chair
161-C-5229	Bell Crank Bracket
163-C-6215	Wine Brake Balancer
163-2771	AB Brake Details

Group No. 18 - Gates & Fixtures

184-2673	Door Arrangement

Group No. 24 - General Design

244-2675	General Design

Drwg. No.	Group No. 26 - Ice Tank
Sk. 544-1	Ice Grates
264-2426	Ice Tanks
264-2427	Ice Tank Details
Sk. 574	Floor Pan
Sk. 728	Ice Tank Screens
263-2266	Drain Spout Application
261-2277	Sub Sill Drip Pan
261-2394	Ice Grates
261-2395	Well Trap Extension & Filler Plate
263-C-9707	Drain Spout
261-C-9728	Drain Spout Wind Guard
261-3039	Top Rail Reinforcement
	Group No. 27 - Insulation
276-2185	Insulation Application
	Group No. 28 - Miscellaneous
282-C-9567	Defect Card Holder (Cheeper)
282-C-6150	Defect Card Holder (Real) CR
	Group No. 30 - Painting, Lettering & Numbering
303-C-741	3" Figures
303-C-951	1" x 1-1/2" Letters & Figures
303-C-952	3" Letters
303-C-953	2" Letters & Figures
303-C-3058	9" Letters & Figures
303-C-3060	9" Letters & Figures
303-C-3063	9" Letters & Figures
303-C-3064	7" Figures
303-C-3065	7" Figures
303-C-3066	4" Figures
303-C-3067	4" Figures
303-C-3068	4" Figures
303-C-3915	7" Figures
303-C-3916	7" Letters
303-C-3917	7" Letters
303-C-3919	7" Letters
304-2674	Lettering on Refrigerator Cars
303-2269	Stenciling - Roof
303-2429	Western Pacific Medallion

Group No. 32 - Roof

Sk. 487	Hatch Frame Casing
Sk. 557	Upper Framing
Sk. 694	Hatch Frame Casing
Sk. 695	Murphy Flexible Roof & Details
Sk. 708	Runboard & Details
324-2252	Hatchway Arrangement
323-2253	Hatchway Details
323-2376	Running Board Securement
323-C-4822	Murphy Flexible Roof
323-2390	Hatch Plug Arrangement & Wood Details

Group No. 34 - Safety Appliances

Sk. 543	Ladders & Brackets
Sk. 580	Brake Step
Sk. 708	Running Boards and Details
341-2041	Side Ladder (PFE Modified)
341-2044	Side Ladder (Wine)
341-C-4270	Running Board Brackets
341-C-4939	Sill Steps
344-C-5188	Handhold

Group No. 36 - Springs

361-C-63	Truck Spring - 1-5/8" Travel

Group No. 42 - Trucks

Sk. 575	Spring Planks
Sk. 700	Column Guide Wearing Channel
423-2247	Packing Retainers - Haldrite
422-C-1897	Truck Roller Seat & Roller
423-C-7510	Truck Side Bearing
423-C-8936	Truck Side Frame
Sk. 606	Truck Bolster - W.P. 1537

Rev. January 29, 1952

Group No. 44 - Underframe

441-2121	Side Sill Reinforcement
441-C-7515	Body Center Plate
443-2741	Check Plate
444-2670	Underframe Arrangement
444-2671	Underframe Details
443-2246	Center Sill Reinforcement

Rev. January 29, 1952